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Catch and Biological Data of Fish from Heming Lake, Manitoba, 1977-1981

J.A. Babaluk, L.K. Gould and J.S. Campbell

Central and Arctic Region
Department of Fisheries and Oceans
Winnipeg, Manitoba
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by

J.A. Babaluk, L.K. Gould and J.S. Campbell

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ABSTRACT

Babaluk, J.A., L.K. Gould, and J.S. Campbell. 1991. Catch and biological data of fish from Heming Lake, Manitoba, 1977-1981. Can. Data Rep. Fish. Aquat. Sci. 856: v + 48 p.

Selected characteristics of fish populations collected from an index gill netting program on Heming Lake, Manitoba during 1977-1981 are tabulated.

Key words: catch composition; index gill netting; lake whitefish; *Coregonus clupeaformis*; northern pike; *Esox lucius*; walleye; *Stizostedion vitreum*; white sucker; *Catostomus commersoni*; yellow perch; *Perca flavescens*.

RÉSUMÉ

Babaluk, J.A., L.K. Gould, and J.S. Campbell. 1991. Catch and biological data of fish from Heming Lake, Manitoba, 1977-1981. Can. Data Rep. Fish. Aquat. Sci. 856: v + 48 p.

On présente sous forme de tableaux les données sur des caractéristiques choisies de populations de poissons capturés dans le lac Heming, Manitoba, entre les années 1977 et 1981, au cours d'un programme de pêche repère au filet maillant servant à déterminer la variation annuelle du nombre de prises.

Mots-clés: composition des prises; pêche repère au filet maillant; grand corégone; *Coregonus clupeaformis*; grand brochet; *Esox lucius*; doré; *Stizostedion vitreum*; meunier noir; *Catostomus commersoni*; perchaude; *Perca flavescens*.

INTRODUCTION

An experiment was initiated in 1945 at Heming Lake, Manitoba (54°53'N, 101°07'W) to control the cestode, *Triaenophorus crassus* Forel, by reducing the northern pike, *Esox lucius* Linnaeus, population in the hope of improving the quality of lake whitefish, *Coregonus clupeaformis* (Mitchill), which was affected by the presence of cysts of the tapeworm in the flesh. The life history of this parasite has been described by Miller (1952). Intensive fishing pressure was applied to the lake using various gears (gill nets, trap nets, etc.) between 1945-1960 in an attempt to control the parasite. The experiment was described by Lawler (1961). Throughout the experiment, standard gear was not used, so in order to serve as an index of abundance standard gill net gangs were set in two locations and fished each open water season between 1952-1960. After the experiment was completed, the index fishing was carried on until 1976 to monitor changes in the fish populations of the lake. From 1977-1981 the index netting was continued but at a reduced level.

This report presents catch and biological data collected from Heming Lake fish populations between 1977-1981.

MATERIALS AND METHODS

DESCRIPTION OF THE STUDY AREA

Heming Lake is located in northwestern Manitoba, approximately 50 km east-northeast of Flin Flon (Fig. 1). Bathymetry, morphometry, limnology and physical and chemical characteristics of the lake were presented by Lawler and Watson (1958) and Babaluk et al. (1980).

INDEX GILL NETTING

The index gill netting program of 1977-1981 was similar to that conducted from 1952-1976. Gill nets were standardized. Nets consisted of gangs made up of 45.7 m lengths of 38, 70 and 89 mm stretched measure multifilament nylon mesh. Each of the three panels was separated by a bridle so that the panels were, in effect, individual nets. Nets were 1.8 m deep. Each year the program consisted of three 5-day periods allowing for four sets at each locations during the following periods: 1-5 June, 11-15 July and 21-25 August. Sets were of 24 h duration (0900-0900 h). For consistency with previous index netting, the same and only two locations were fished: "dock" (deeper water off the research facility's dock) and "bay" (shallow bay at the south end of the lake) (Fig. 2). One gang was fished at each location each day during the program.

Fish species caught from Heming Lake included: walleye, *Stizostedion vitreum* (Mitchill); northern pike; white sucker, *Catostomus commersoni* (Lacepede); yellow perch, *Perca flavescens* (Mitchill); lake whitefish; burbot, *Lota lota* (Linnaeus) and rainbow trout, *Oncorhynchus mykiss* (Walbaum). Scientific names are according to Scott and Crossman (1973), except rainbow trout which is according to Kendall (1988).

BIOLOGICAL SAMPLING

All fish collected from gill nets were identified to species, enumerated, measured (fork length to the nearest mm) and weighed (nearest 10 g). Sex was determined when practical. Opercula or dorsal spines were collected from walleye for age determinations as described by Campbell and Babaluk (1979).

DATA ANALYSIS

Data were analysed using a VAX 6 000-410 computer. The Statistical Analysis System (1990) was used to generate length, weight, sex and age summaries and to perform basic calculations and analysis.

Length-weight relationships were described by the following equation:

$$\text{Log}_{10} W = a + b(\log_{10} L)$$

where: W = weight in grams

L = fork length in millimeters

a = Y - intercept

b = slope of the regression line.

Relative condition factor (K) was calculated using the following formula:

$$K = \frac{W \times 10^5}{L^3}$$

where: W = weight in grams

L = for length in millimeters.

DATA PRESENTATION

Fish species composition of Heming Lake for 1977-1981 are presented in Table 1. The rainbow trout caught in 1977 and 1978 escaped during cage-culture experiments with the species in Heming Lake in the early 1970's. Length, weight and age data for Heming Lake walleye are presented Tables 2-15. Length and weight data for northern pike are presented in Tables 16-25. Data for white sucker are presented in Tables 26-35. Yellow perch and

lake whitefish data are presented in Tables 36-45 and 46-55, respectively. Length-weight relationships for all species are presented in Tables 56-60.

Other data from Heming Lake, including data from 1952-1976, can be obtained by contacting:

J. Babaluk
Fisheries Research Biologist
Freshwater Institute Science Laboratory
501 University Crescent
Winnipeg, Manitoba
Canada, R3T 2N6

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Table 1. Fish species composition, from combined "dock and bay" gill nets, of Heming Lake, Manitoba, 1977-1981.

Year	Walleye		Northern Pike		White Sucker		Yellow Perch		Lake Whitefish		Burbot		Rainbow Trout		Totals	
	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)	n	(%)
1977	12	(1.2)	479	(47.2)	344	(33.9)	160	(15.8)	18	(1.8)	-	-	2	(0.2)	1015	(100.00)
1978	16	(2.2)	339	(47.3)	183	(25.6)	162	(22.6)	13	(1.8)	2	(0.3)	1	(0.1)	716	(100.00)
1979	1	(0.1)	359	(40.2)	310	(34.8)	212	(23.8)	9	(1.0)	1	(0.1)	-	-	892	(100.00)
1980	14	(1.8)	252	(32.9)	261	(34.1)	214	(28.0)	24	(3.1)	-	-	-	-	765	(100.00)
1981	35	(4.3)	263	(32.5)	322	(39.8)	162	(20.0)	25	(3.1)	2	(0.2)	-	-	809	(100.00)

Table 2. Length and weight data, by 10mm fork length intervals, for walleye caught by "dock" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
290	.	.	.	.	.	.	1	293	1	339	.	1.35	1	293	1	339	.	1.35
370	1	374	1	603	.	1.15	.	.	.	.	.	.	1	374	1	603	.	1.15
380	1	387	1	700	.	1.21	1	384	1	700	.	1.24	2	386	2	700	0	1.22
410	1	412	1	795	.	1.14	.	.	.	.	.	.	1	412	1	795	.	1.14
440	.	.	.	.	.	.	1	441	1	908	.	1.06	1	441	1	908	.	1.06
500	.	.	.	.	.	.	1	504	1	1525	.	1.19	1	504	1	1525	.	1.19
TOTAL/MEAN	3	391	3	699	96	1.17	4	406	4	868	497	1.21	7	399	7	796	367	1.19

Table 3. Length and weight data, by 10mm fork length intervals, for walleye caught by "dock" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
380	1	382	1	630	.	1.13	.	.	.	.	.	.	1	382	1	630	.	1.13
390	2	394	2	710	42	1.16	.	.	.	.	.	.	2	394	2	710	42	1.16
400	1	403	1	710	.	1.08	1	407	1	790	.	1.17	2	405	2	750	57	1.13
420	2	424	2	945	21	1.24	.	.	.	.	.	.	2	424	2	945	21	1.24
440	1	443	1	1040	.	1.20	.	.	.	.	.	.	1	443	1	1040	.	1.20
450	.	.	.	.	.	.	1	453	1	1240	.	1.33	1	453	1	1240	.	1.33
470	.	.	.	.	.	.	1	475	1	1350	.	1.26	1	475	1	1350	.	1.26
520	.	.	.	.	.	.	1	520	1	1890	.	1.34	1	520	1	1890	.	1.34
TOTAL/MEAN	7	409	7	813	160	1.17	4	464	4	1318	452	1.28	11	429	11	996	376	1.21

Table 4. Length and weight data, by 10mm fork length intervals, for walleye caught by "dock" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
420	.	.	.	.	.	.	1	420	1	990	.	1.34	1	420	1	990	.	1.34
TOTAL/MEAN	.	.	.	.	.	.	1	420	1	990	.	1.34	1	420	1	990	.	1.34

Table 5. Length and weight data, by 10mm fork length intervals, for walleye caught by "dock" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
240	.	.	.	.	.	.	1	242	1	147	.	1.04	1	242	1	147	.	1.04
370	.	.	.	.	.	.	1	378	1	580	.	1.07	1	378	1	580	.	1.07
420	.	.	.	.	.	.	1	420	1	910	.	1.23	1	420	1	910	.	1.23
440	2	444	2	1025	35	1.17	.	.	.	.	.	.	2	444	2	1025	35	1.17
450	.	.	.	.	.	.	2	456	2	1180	141	1.25	2	456	2	1180	141	1.25
470	.	.	.	.	.	.	2	470	2	1230	85	1.18	2	470	2	1230	85	1.18
510	.	.	.	.	.	.	1	513	1	1820	.	1.35	1	513	1	1820	.	1.35
TOTAL/MEAN	2	444	2	1025	35	1.17	8	426	8	1035	503	1.19	10	429	10	1033	444	1.19

Table 6. Length and weight data, by 10mm fork length intervals, for walleye caught by "dock" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
160	.	.	.	.	.	.	1	163	1	44	.	1.02	1	163	1	44	.	1.02
170	2	176	2	53	4	0.98	.	.	.	.	.	.	2	176	2	53	4	0.98
180	.	.	.	.	.	.	2	184	2	62	4	1.00	2	184	2	62	4	1.00
190	1	198	1	68	.	0.88	.	.	.	.	.	.	1	198	1	68	.	0.88
230	1	237	1	125	.	0.94	2	235	2	126	1	0.98	3	235	3	126	1	0.96
240	2	243	2	143	4	1.00	5	244	5	143	10	0.98	7	243	7	143	8	0.99
250	4	252	4	157	5	0.98	2	255	2	168	18	1.01	6	253	6	160	10	0.99
260	.	.	.	.	.	.	1	260	1	160	.	0.91	1	260	1	160	.	0.91
280	1	283	1	240	.	1.06	.	.	.	.	.	.	1	283	1	240	.	1.06
300	.	.	.	.	.	.	1	302	1	287	.	1.04	1	302	1	287	.	1.04
330	2	333	2	385	7	1.05	.	.	.	.	.	.	2	333	2	385	7	1.05
340	.	.	.	.	.	.	1	340	1	380	.	0.97	1	340	1	380	.	0.97
430	1	430	1	920	.	1.16	.	.	.	.	.	.	1	430	1	920	.	1.16
TOTAL/MEAN	14	261	14	224	225	1.00	15	242	15	153	85	0.99	29	251	29	187	169	0.99

Table 7. Length and weight data, by 10mm fork length intervals, for walleye caught by "bay" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
370	1	374	1	573	.	1.10	.	.	.	.	.	.	1	374	1	573	.	1.10
400	.	.	.	.	.	.	1	407	1	850	.	1.26	1	407	1	850	.	1.26
460	.	.	.	.	.	.	1	462	1	1282	.	1.30	1	462	1	1282	.	1.30
470	.	.	.	.	.	.	1	473	1	1167	.	1.10	1	473	1	1167	.	1.10
490	.	.	.	.	.	.	1	497	1	1563	.	1.27	1	497	1	1563	.	1.27
TOTAL/MEAN	1	374	1	573	.	1.10	4	460	4	1216	295	1.23	5	443	5	1087	385	1.21

Table 8. Length and weight data, by 10mm fork length intervals, for walleye caught by "bay" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
360	1	369	1	540	.	1.07	.	.	.	.	.	.	1	369	1	540	.	1.07
380	.	.	.	.	.	.	1	384	1	650	.	1.15	1	384	1	650	.	1.15
400	.	.	.	.	.	.	1	404	1	740	.	1.12	1	404	1	740	.	1.12
430	1	434	1	980	.	1.20	.	.	.	.	.	.	1	434	1	980	.	1.20
440	.	.	.	.	.	.	1	449	1	1060	.	1.17	1	449	1	1060	.	1.17
TOTAL/MEAN	2	402	2	760	311	1.14	3	412	3	817	215	1.15	5	408	5	794	220	1.14

Table 9. Length and weight data, by 10mm fork length intervals, for walleye caught by "bay" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
460	.	.	.	.	.	.	2	465	2	1275	177	1.27	2	465	2	1275	177	1.27
470	.	.	.	.	.	.	1	475	1	1420	.	1.32	1	475	1	1420	.	1.32
530	.	.	.	.	.	.	1	530	1	1830	.	1.23	1	530	1	1830	.	1.23
TOTAL/MEAN	.	.	.	.	.	.	4	484	4	1450	282	1.27	4	484	4	1450	282	1.27

Table 10. Length and weight data, by 10mm fork length intervals, for walleye caught by "bay" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
240	.	.	.	.	.	.	1	248	1	180	.	1.18	1	248	1	180	.	1.18
410	1	410	1	910	.	1.32	1	410	1	750	.	1.09	2	410	2	830	113	1.20
580	.	.	.	.	.	.	1	581	1	2300	.	1.17	1	581	1	2300	.	1.17
TOTAL/MEAN	1	410	1	910	.	1.32	3	413	3	1077	1097	1.15	4	412	4	1035	900	1.19

Table 11. Length and weight data, by age, for walleye caught by "dock and bay" gill nets in Heming Lake, 1977.

AGE (years)	MALES							FEMALES							COMBINED						
	LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)			
	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K
5	1	412	.	1	795	.	1.14	.	.	.	.	.	.	.	1	412	.	1	795	.	1.14
6	1	374	.	1	573	.	1.10	1	384	.	1	700	.	1.24	2	379	7	2	637	90	1.17
7	.	.	.	.	.	.	.	1	293	.	1	339	.	1.35	1	293	.	1	339	.	1.35
8	2	381	9	2	652	69	1.18	.	.	.	.	.	.	.	2	381	9	2	652	69	1.18
9	.	.	.	.	.	.	.	1	441	.	1	908	.	1.06	1	441	.	1	908	.	1.06
14	.	.	.	.	.	.	.	3	477	18	3	1337	204	1.23	3	477	18	3	1337	204	1.23
15	.	.	.	.	.	.	.	1	504	.	1	1525	.	1.19	1	504	.	1	1525	.	1.19
TOTAL/MEAN	4	387	18	4	668	101	1.15	7	436	75	7	1069	448	1.22	11	418	64	11	923	405	1.19

Table 12. Length and weight data, by age, for walleye caught by "dock and bay" gill nets in Heming Lake, 1978.

AGE (years)	MALES							FEMALES							COMBINED						
	LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)			
	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K
6	1	382	.	1	630	.	1.13	1	407	.	1	790	.	1.17	2	395	18	2	710	113	1.15
7	.	.	.	.	.	.	.	1	449	.	1	1060	.	1.17	1	449	.	1	1060	.	1.17
8	2	407	23	2	820	198	1.21	1	384	.	1	650	.	1.15	3	399	21	3	763	171	1.19
9	3	399	28	3	727	196	1.13	.	.	.	.	.	.	.	3	399	28	3	727	196	1.13
10	.	.	.	.	.	.	.	1	475	.	1	1350	.	1.26	1	475	.	1	1350	.	1.26
15	1	398	.	1	740	.	1.17	1	404	.	1	740	.	1.12	2	401	4	2	740	0	1.15
16	1	434	.	1	980	.	1.20	.	.	.	.	.	.	.	1	434	.	1	980	.	1.20
17	1	443	.	1	1040	.	1.20	1	453	.	1	1240	.	1.33	2	448	7	2	1140	141	1.27
18	.	.	.	.	.	.	.	1	520	.	1	1890	.	1.34	1	520	.	1	1890	.	1.34
TOTAL/MEAN	9	407	25	9	801	179	1.17	7	442	47	7	1103	435	1.22	16	422	39	16	933	342	1.19

Table 13. Length and weight data, by age, for walleye caught by "dock and bay" gill nets in Heming Lake, 1979.

AGE (years)	MALES							FEMALES							COMBINED						
	LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)			
	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K
15	.	.	.	.	.	.	.	1	420	.	1	990	.	1.34	1	420	.	1	990	.	1.34
TOTAL/MEAN	.	.	.	.	.	.	.	1	420	.	1	990	.	1.34	1	420	.	1	990	.	1.34

Table 14. Length and weight data, by age, for walleye caught by "dock and bay" gill nets in Heming Lake, 1980.

AGE (years)	MALES							FEMALES							COMBINED						
	LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)			
	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K
2	.	.	.	.	.	.	.	1	242	.	1	147	.	1.04	1	242	.	1	147	.	1.04
5	.	.	.	.	.	.	.	2	399	30	2	745	233	1.15	2	399	30	2	745	233	1.15
8	2	444	2	2	1025	35	1.17	3	463	8	3	1133	47	1.14	5	455	12	5	1090	70	1.15
9	.	.	.	.	.	.	.	1	470	.	1	1290	.	1.24	1	470	.	1	1290	.	1.24
12	.	.	.	.	.	.	.	2	494	27	2	1620	283	1.34	2	494	27	2	1620	283	1.34
14	.	.	.	.	.	.	.	1	456	.	1	1280	.	1.35	1	456	.	1	1280	.	1.35
17	.	.	.	.	.	.	.	2	498	46	2	1615	304	1.31	2	498	46	2	1615	304	1.31
TOTAL/MEAN	2	444	2	2	1025	35	1.17	12	445	75	12	1173	474	1.22	14	445	69	14	1152	439	1.21

Table 15. Length and weight data, by age, for walleye caught by "dock and bay" gill nets in Heming Lake, 1981.

AGE (years)	MALES							FEMALES							COMBINED						
	LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)				LENGTH (mm)			WEIGHT (g)			
	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K	N	MEAN	SD	N	MEAN	SD	K
1	2	176	4	2	53	4	0.98	2	172	12	2	52	11	1.01	4	174	8	4	52	7	1.00
2	7	242	20	7	140	33	0.97	11	239	19	11	140	32	1.00	18	240	19	18	140	31	0.99
3	4	296	46	4	284	126	1.02	3	301	40	3	276	110	0.97	7	298	40	7	280	110	1.00
7	2	420	14	2	915	7	1.24	1	410	.	1	750	.	1.09	3	417	12	3	860	95	1.19
16	.	.	.	.	.	.	.	1	581	.	1	2300	.	1.17	1	581	.	1	2300	.	1.17
TOTAL/MEAN	15	271	76	15	270	280	1.02	18	271	96	18	307	523	1.01	33	271	86	33	290	424	1.02

Table 16. Length and weight data, by 10mm fork length intervals, for northern pike caught by "dock" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
210	.	.	.	.	.	.	1	216	.	.	.	.	1	216	.	.	.	.
220	.	.	.	.	.	.	1	222	1	71	.	0.65	2	224	2	71	0	0.63
230	.	.	.	.	.	.	1	234	1	82	.	0.64	2	236	2	82	0	0.63
240	1	248	1	106	.	0.69	1	246	1	98	.	0.66	2	247	2	102	6	0.68
250	1	257	1	115	.	0.68	.	.	.	.	.	.	2	255	2	111	6	0.67
260	.	.	.	.	.	.	1	265	1	129	.	0.69	2	265	2	123	8	0.66
270	2	273	2	128	5	0.63	.	.	.	.	.	.	3	274	3	133	11	0.65
280	.	.	.	.	.	.	1	280	1	139	.	0.63	2	284	2	150	16	0.66
290	1	298	1	164	.	0.62	.	.	.	.	.	.	1	298	1	164	.	0.62
300	2	301	2	201	1	0.74	1	308	1	198	.	0.68	3	303	3	200	2	0.72
310	.	.	.	.	.	.	1	312	1	189	.	0.68	1	312	1	189	.	0.68
320	.	.	.	.	.	.	1	321	1	230	.	0.70	1	321	1	230	.	0.70
330	2	334	2	265	1	0.71	1	330	1	250	.	0.70	3	332	3	260	9	0.71
350	1	350	1	258	.	0.60	.	.	.	.	.	.	1	350	1	258	.	0.60
360	1	364	1	338	.	0.70	.	.	.	.	.	.	1	364	1	338	.	0.70
370	2	374	2	361	4	0.69	.	.	.	.	.	.	2	374	2	361	4	0.69
380	.	.	.	.	.	.	1	387	1	400	.	0.69	1	387	1	400	.	0.69
390	1	390	1	426	.	0.72	1	391	1	400	.	0.67	2	391	2	413	18	0.69
400	5	403	5	478	18	0.73	3	404	3	434	40	0.66	8	403	8	462	34	0.70
410	4	415	4	488	37	0.68	4	414	4	497	33	0.70	8	415	8	493	33	0.69
420	6	422	6	527	35	0.70	7	423	7	516	37	0.68	13	422	13	521	35	0.69
430	10	433	10	556	39	0.69	5	436	5	605	36	0.73	15	434	15	573	44	0.70
440	12	444	12	604	30	0.69	1	446	1	625	.	0.70	13	444	13	606	29	0.69
450	7	453	7	649	47	0.70	4	456	4	660	79	0.69	11	454	11	653	57	0.70
460	6	466	6	756	39	0.75	4	463	4	684	51	0.69	10	465	10	727	56	0.72
470	3	476	3	825	90	0.77	5	474	5	725	44	0.68	8	475	8	763	78	0.71
480	3	483	3	804	89	0.72	4	484	4	803	21	0.71	7	484	7	804	53	0.71
490	2	494	2	857	45	0.71	4	495	4	838	67	0.69	6	495	6	844	56	0.70
500	2	503	2	913	18	0.72	3	505	3	950	87	0.74	5	504	5	935	65	0.73
510	3	511	3	996	80	0.75	6	516	6	938	72	0.68	9	514	9	957	76	0.70
520	1	525	1	1175	.	0.81	9	525	9	1036	50	0.72	10	525	10	1050	64	0.73
530	1	537	1	1188	.	0.77	4	535	4	1069	46	0.70	5	535	5	1093	67	0.71
540	1	546	1	1113	.	0.68	6	544	6	1155	91	0.72	7	544	7	1149	85	0.71
550	.	.	.	.	.	.	2	556	2	1232	9	0.72	3	555	3	1096	235	0.64
560	.	.	.	.	.	.	3	568	3	1258	88	0.69	3	568	3	1258	88	0.69
570	.	.	.	.	.	.	2	577	2	1288	71	0.67	2	577	2	1288	71	0.67
580	1	580	1	1338	.	0.69	1	582	1	1288	.	0.65	2	581	2	1313	35	0.67
590	.	.	.	.	.	.	2	594	2	1613	159	0.77	2	594	2	1613	159	0.77
600	.	.	.	.	.	.	2	608	2	1594	8	0.71	2	608	2	1594	8	0.71
640	.	.	.	.	.	.	1	645	1	1950	.	0.73	1	645	1	1950	.	0.73
660	.	.	.	.	.	.	1	667	1	2350	.	0.79	1	667	1	2350	.	0.79
TOTAL/MEAN	81	431	81	604	250	0.71	95	473	95	831	411	0.70	184	446	183	703	374	0.70

Table 17. Length and weight data, by 10mm fork length intervals, for northern pike caught by "dock" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
220	.	.	.	.	.	.	.	.	.	.	.	.	1	222	1	69	.	0.63
240	.	.	.	.	.	.	.	.	.	.	.	.	1	248	1	89	.	0.58
260	.	.	.	.	.	.	2	264	2	115	7	0.62	2	264	2	115	7	0.62
290	2	296	2	172	11	0.67	.	.	.	.	.	.	2	296	2	172	11	0.67
300	1	305	1	210	.	0.74	.	.	.	.	.	.	1	305	1	210	.	0.74
310	1	314	1	225	.	0.73	.	.	.	.	.	.	1	314	1	225	.	0.73
320	.	.	.	.	.	.	1	325	1	210	.	0.61	1	325	1	210	.	0.61
330	1	333	1	295	.	0.80	.	.	.	.	.	.	1	333	1	295	.	0.80
350	1	350	1	330	.	0.77	1	350	1	280	.	0.65	2	350	2	305	35	0.71
360	.	.	.	.	.	.	2	361	2	350	0	0.75	2	361	2	350	0	0.75
370	2	376	2	375	7	0.71	1	377	1	395	.	0.74	3	376	3	382	13	0.72
380	1	387	1	450	.	0.78	.	.	.	.	.	.	1	387	1	450	.	0.78
390	2	394	2	440	14	0.72	2	393	2	443	18	0.73	4	393	4	441	13	0.73
400	1	402	1	470	.	0.72	2	404	2	485	35	0.74	3	403	3	480	26	0.73
410	2	415	2	500	0	0.70	.	.	.	.	.	.	2	415	2	500	0	0.70
430	2	434	2	575	49	0.70	.	.	.	.	.	.	2	434	2	575	49	0.70
440	4	442	4	626	29	0.72	.	.	.	.	.	.	4	442	4	626	29	0.72
450	1	455	1	640	.	0.68	3	452	3	677	49	0.73	4	455	4	668	44	0.72
460	3	467	3	717	21	0.71	.	.	.	.	.	.	3	467	3	717	21	0.71
470	4	474	4	735	41	0.69	2	475	2	750	127	0.70	6	474	6	740	66	0.69
480	1	484	1	720	.	0.64	4	485	4	798	46	0.70	5	485	5	782	53	0.69
490	3	496	3	823	32	0.67	1	496	1	880	.	0.72	4	496	4	838	39	0.69
500	1	509	1	870	.	0.66	5	504	5	881	55	0.69	6	505	6	879	49	0.68
510	3	513	3	953	25	0.71	4	517	4	950	39	0.69	7	515	7	951	31	0.70
520	3	525	3	993	47	0.69	3	523	3	1057	123	0.74	6	524	6	1025	90	0.71
530	2	531	2	1008	124	0.67	3	533	3	1050	62	0.69	5	532	5	1033	79	0.69
540	2	541	2	1145	163	0.72	2	545	2	1055	21	0.65	4	543	4	1100	108	0.69
550	.	.	.	.	.	.	1	552	1	1130	.	0.67	1	552	1	1130	.	0.67
560	2	566	2	1320	156	0.73	.	.	.	.	.	.	2	566	2	1320	156	0.73
570	.	.	.	.	.	.	1	575	1	1340	.	0.70	1	575	1	1340	.	0.70
580	.	.	.	.	.	.	1	580	1	1350	.	0.69	1	580	1	1350	.	0.69
590	.	.	.	.	.	.	4	595	4	1593	124	0.76	4	595	4	1593	124	0.76
610	1	610	1	1650	.	0.73	.	.	.	.	.	.	1	610	1	1650	.	0.73
640	.	.	.	.	.	.	1	642	1	1920	.	0.73	1	642	1	1920	.	0.73
760	.	.	.	.	.	.	1	764	1	3260	.	0.73	1	764	1	3260	.	0.73
TOTAL/MEAN	46	455	46	714	326	0.71	47	489	47	921	537	0.71	95	467	95	803	462	0.70

Table 18. Length and weight data, by 10mm fork length intervals, for northern pike caught by "dock" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
110	.	.	.	.	.	.	.	.	.	.	.	.	1	116	.	.	.	.
210	1	215	1	67	.	0.67	.	.	.	.	.	.	1	215	1	67	.	0.67
250	3	253	3	101	17	0.62	.	.	.	.	.	.	3	253	3	101	17	0.62
280	2	285	2	150	14	0.65	1	280	1	130	.	0.59	3	283	3	143	15	0.63
290	.	.	.	.	.	.	2	295	2	188	17	0.74	2	295	2	188	17	0.74
300	1	306	1	209	.	0.73	.	.	.	.	.	.	1	306	1	209	.	0.73
310	2	311	2	199	10	0.66	.	.	.	.	.	.	2	311	2	199	10	0.66
330	1	337	1	326	.	0.85	1	336	1	280	.	0.74	2	337	2	303	33	0.79
340	1	342	1	249	.	0.62	.	.	.	.	.	.	1	342	1	249	.	0.62
350	.	.	.	.	.	.	1	358	1	301	.	0.66	1	358	1	301	.	0.66
370	2	377	2	365	35	0.68	.	.	.	.	.	.	2	377	2	365	35	0.68
390	1	396	1	410	.	0.66	1	395	1	420	.	0.68	2	396	2	415	7	0.67
400	1	406	1	444	.	0.66	2	404	2	485	21	0.74	3	404	3	471	28	0.71
410	3	411	3	474	22	0.68	.	.	.	.	.	.	3	411	3	474	22	0.68
420	2	421	2	494	1	0.66	1	422	1	589	.	0.78	3	421	3	525	55	0.70
430	1	434	1	570	.	0.70	.	.	.	.	.	.	1	434	1	570	.	0.70
440	4	447	4	599	51	0.67	.	.	.	.	.	.	4	447	4	599	51	0.67
450	2	452	2	622	30	0.68	.	.	.	.	.	.	2	452	2	622	30	0.68
460	2	465	2	720	28	0.72	1	460	1	670	.	0.69	3	463	3	703	35	0.71
470	7	474	7	750	50	0.70	2	476	2	687	3	0.64	9	475	9	736	51	0.69
480	3	483	3	792	84	0.70	1	486	1	799	.	0.70	4	484	4	794	69	0.70
490	3	494	3	917	40	0.76	4	492	4	765	47	0.64	7	493	7	830	91	0.69
500	6	503	6	880	87	0.69	.	.	.	.	.	.	6	503	6	880	87	0.69
510	4	514	4	900	141	0.66	.	.	.	.	.	.	4	514	4	900	141	0.66
520	3	524	3	1040	35	0.72	3	524	3	975	53	0.68	6	524	6	1008	54	0.70
530	1	535	1	1060	.	0.69	2	537	2	1082	3	0.70	3	536	3	1075	13	0.70
540	3	546	3	1263	35	0.78	1	544	1	1070	.	0.66	4	545	4	1215	101	0.75
550	3	554	3	1143	155	0.67	3	557	3	1237	140	0.72	6	556	6	1190	142	0.69
560	.	.	.	.	.	.	1	561	1	1260	.	0.71	1	561	1	1260	.	0.71
570	2	571	2	1316	142	0.71	2	575	2	1255	21	0.66	4	573	4	1285	90	0.68
580	2	585	2	1545	7	0.77	2	589	2	1524	62	0.75	4	587	4	1535	38	0.76
600	1	600	1	1620	.	0.75	.	.	.	.	.	.	1	600	1	1620	.	0.75
620	.	.	.	.	.	.	1	625	1	1650	.	0.68	1	625	1	1650	.	0.68
630	2	633	2	1810	14	0.72	.	.	.	.	.	.	2	633	2	1810	14	0.72
640	.	.	.	.	.	.	1	640	1	1920	.	0.73	1	640	1	1920	.	0.73
650	.	.	.	.	.	.	1	651	1	1960	.	0.71	1	651	1	1960	.	0.71
700	.	.	.	.	.	.	1	704	1	2500	.	0.72	1	704	1	2500	.	0.72
770	.	.	.	.	.	.	1	778	1	3500	.	0.74	1	778	1	3500	.	0.74
TOTAL/MEAN	69	460	69	770	416	0.70	36	505	36	1033	683	0.69	106	472	105	860	535	0.70

Table 19. Length and weight data, by 10mm fork length intervals, for northern pike caught by "dock" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
200	.	.	.	.	.	.	1	206	1	59	.	0.67	1	206	1	59	.	0.67
240	1	245	1	95	.	0.65	.	.	.	.	.	.	1	245	1	95	.	0.65
250	1	255	1	109	.	0.66	.	.	.	.	.	.	1	255	1	109	.	0.66
260	1	265	1	125	.	0.67	1	263	1	137	.	0.75	2	264	2	131	8	0.71
280	.	.	.	.	.	.	2	283	2	148	14	0.65	2	283	2	148	14	0.65
290	1	290	1	173	.	0.71	.	.	.	.	.	.	1	290	1	173	.	0.71
310	1	310	1	193	.	0.65	.	.	.	.	.	.	1	310	1	193	.	0.65
320	.	.	.	.	.	.	1	324	1	220	.	0.65	1	324	1	220	.	0.65
340	2	343	2	250	14	0.62	2	345	2	234	20	0.57	4	344	4	242	17	0.60
360	1	360	1	309	.	0.66	.	.	.	.	.	.	1	360	1	309	.	0.66
380	3	387	3	383	41	0.66	1	387	1	427	.	0.74	4	387	4	394	40	0.68
390	1	395	1	391	.	0.63	1	390	1	400	.	0.67	2	393	2	396	6	0.65
420	1	420	1	510	.	0.69	.	.	.	.	.	.	1	420	1	510	.	0.69
430	4	436	4	518	69	0.63	1	431	1	510	.	0.64	5	435	5	517	60	0.63
440	1	440	1	530	.	0.62	.	.	.	.	.	.	1	440	1	530	.	0.62
450	.	.	.	.	.	.	1	455	1	621	.	0.66	1	455	1	621	.	0.66
460	1	465	1	640	.	0.64	1	462	1	690	.	0.70	2	464	2	665	35	0.67
470	1	479	1	720	.	0.66	1	474	1	750	.	0.70	2	477	2	735	21	0.68
480	1	480	1	710	.	0.64	1	485	1	740	.	0.65	2	483	2	725	21	0.65
490	1	498	1	870	.	0.70	.	.	.	.	.	.	1	498	1	870	.	0.70
500	1	506	1	980	.	0.76	.	.	.	.	.	.	1	506	1	980	.	0.76
510	2	517	2	1015	35	0.73	1	515	1	890	.	0.65	3	516	3	973	76	0.71
520	2	521	2	950	71	0.67	2	523	2	920	14	0.64	4	522	4	935	45	0.66
530	1	537	1	1220	.	0.79	.	.	.	.	.	.	1	537	1	1220	.	0.79
550	1	550	1	1040	.	0.63	.	.	.	.	.	.	1	550	1	1040	.	0.63
560	1	567	1	1325	.	0.73	.	.	.	.	.	.	1	567	1	1325	.	0.73
570	1	576	1	1180	.	0.62	.	.	.	.	.	.	1	576	1	1180	.	0.62
580	1	585	1	1540	.	0.77	1	585	1	1290	.	0.64	2	585	2	1415	177	0.71
590	.	.	.	.	.	.	1	595	1	1480	.	0.70	1	595	1	1480	.	0.70
620	1	624	1	1680	.	0.69	1	625	1	1580	.	0.65	2	625	2	1630	71	0.67
640	2	640	2	1875	35	0.72	.	.	.	.	.	.	2	640	2	1875	35	0.72
TOTAL/MEAN	35	451	35	735	502	0.67	20	425	20	620	456	0.66	55	442	55	693	485	0.67

Table 20. Length and weight data, by 10mm fork length intervals, for northern pike caught by "dock" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
150	.	.	.	.	.	.	1	153	1	24	.	0.67	1	153	1	24	.	0.67
190	1	195	1	51	.	0.69	.	.	.	.	.	.	1	195	1	51	.	0.69
220	.	.	.	.	.	.	2	227	2	80	2	0.68	2	227	2	80	2	0.68
230	1	233	1	81	.	0.64	.	.	.	.	.	.	1	233	1	81	.	0.64
240	1	242	1	85	.	0.60	.	.	.	.	.	.	1	242	1	85	.	0.60
250	1	252	1	113	.	0.71	1	253	1	103	.	0.64	2	253	2	108	7	0.67
270	1	277	1	147	.	0.69	1	270	1	115	.	0.58	2	274	2	131	23	0.64
280	.	.	.	.	.	.	2	284	2	155	8	0.68	2	284	2	155	8	0.68
300	.	.	.	.	.	.	2	304	2	196	34	0.70	2	304	2	196	34	0.70
310	.	.	.	.	.	.	1	318	1	260	.	0.81	1	318	1	260	.	0.81
320	.	.	.	.	.	.	1	322	1	280	.	0.84	1	322	1	280	.	0.84
330	1	333	1	270	.	0.73	.	.	.	.	.	.	1	333	1	270	.	0.73
340	.	.	.	.	.	.	3	341	3	299	37	0.75	3	341	3	299	37	0.75
350	3	354	3	330	0	0.75	4	355	4	325	31	0.73	7	354	7	327	22	0.74
360	1	367	1	330	.	0.67	.	.	.	.	.	.	1	367	1	330	.	0.67
370	2	370	2	400	14	0.79	1	374	1	400	.	0.76	3	371	3	400	10	0.78
380	6	385	6	422	23	0.74	2	384	2	425	35	0.75	8	384	8	423	24	0.74
390	.	.	.	.	.	.	2	394	2	420	28	0.69	2	394	2	420	28	0.69
400	4	402	4	463	17	0.71	5	404	5	482	16	0.73	9	403	9	473	19	0.72
410	.	.	.	.	.	.	1	419	1	540	.	0.73	1	419	1	540	.	0.73
420	2	425	2	570	28	0.74	3	425	3	537	21	0.70	5	425	5	550	27	0.72
430	2	436	2	575	21	0.69	2	431	2	605	21	0.76	4	434	4	590	24	0.72
440	1	443	1	610	.	0.70	2	445	2	610	42	0.69	3	444	3	610	30	0.70
450	3	456	3	717	67	0.76	1	453	1	690	.	0.74	4	455	4	710	56	0.75
460	2	463	2	740	14	0.75	.	.	.	.	.	.	2	463	2	740	14	0.75
470	4	475	4	813	87	0.76	1	478	1	880	.	0.81	5	476	5	826	81	0.77
490	.	.	.	.	.	.	1	498	1	790	.	0.64	1	498	1	790	.	0.64
500	2	505	2	985	120	0.77	3	507	3	967	31	0.74	5	506	5	974	65	0.75
510	1	511	1	930	.	0.70	.	.	.	.	.	.	1	511	1	930	.	0.70
520	.	.	.	.	.	.	1	524	1	1300	.	0.90	1	524	1	1300	.	0.90
540	.	.	.	.	.	.	1	548	1	1240	.	0.75	1	548	1	1240	.	0.75
560	.	.	.	.	.	.	1	560	1	1450	.	0.83	1	560	1	1450	.	0.83
590	1	594	1	1660	.	0.79	.	.	.	.	.	.	1	594	1	1660	.	0.79
600	.	.	.	.	.	.	1	606	1	1760	.	0.79	1	606	1	1760	.	0.79
870	.	.	.	.	.	.	1	873	1	5770	.	0.87	1	873	1	5770	.	0.87
TOTAL/MEAN	40	402	40	540	309	0.73	47	401	47	632	851	0.73	87	401	87	590	658	0.73

Table 21. Length and weight data, by 10mm fork length intervals, for northern pike caught by "bay" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
190	.	.	.	.	.	.	.	.	.	.	.	.	1	198	1	60	.	0.77
210	.	.	.	.	.	.	.	.	.	.	.	.	1	212	1	58	.	0.61
220	.	.	.	.	.	.	.	.	.	.	.	.	1	223	1	69	.	0.62
230	1	235	1	103	.	0.79	.	.	.	.	.	.	1	235	1	103	.	0.79
240	2	243	2	93	1	0.65	.	.	.	.	.	.	2	243	2	93	1	0.65
250	.	.	.	.	.	.	1	257	1	128	.	0.75	1	257	1	128	.	0.75
260	1	268	1	154	.	0.80	.	.	.	.	.	.	1	268	1	154	.	0.80
270	1	273	1	130	.	0.64	1	273	1	125	.	0.61	2	273	2	128	4	0.63
290	1	291	1	173	.	0.70	.	.	.	.	.	.	1	291	1	173	.	0.70
320	2	327	2	231	9	0.66	.	.	.	.	.	.	2	327	2	231	9	0.66
330	.	.	.	.	.	.	1	333	1	256	.	0.69	1	333	1	256	.	0.69
340	1	346	1	293	.	0.71	.	.	.	.	.	.	1	346	1	293	.	0.71
360	2	363	2	357	44	0.75	.	.	.	.	.	.	2	363	2	357	44	0.75
380	7	383	7	419	18	0.75	1	385	1	400	.	0.70	8	383	8	417	18	0.74
390	3	395	3	459	69	0.74	3	397	3	453	34	0.72	6	396	6	456	49	0.73
400	4	403	4	436	20	0.67	3	400	3	433	38	0.68	7	402	7	435	26	0.67
410	5	412	5	503	40	0.72	1	413	1	450	.	0.64	6	412	6	494	42	0.71
420	2	424	2	502	68	0.66	3	425	3	559	44	0.73	5	425	5	536	55	0.70
430	11	433	11	607	27	0.75	10	434	10	533	54	0.65	21	434	21	572	56	0.70
440	12	444	12	623	35	0.71	2	446	2	550	35	0.62	14	444	14	613	43	0.70
450	12	455	12	677	33	0.72	7	455	7	638	33	0.68	19	455	19	662	37	0.70
460	8	465	8	731	65	0.73	5	466	5	765	66	0.76	13	465	13	744	65	0.74
470	11	474	11	764	130	0.72	7	472	7	743	51	0.70	18	473	18	756	105	0.71
480	12	483	12	823	76	0.73	6	484	6	792	38	0.70	18	483	18	813	66	0.72
490	10	493	10	880	53	0.74	12	494	12	888	80	0.74	22	493	22	884	68	0.74
500	14	505	14	955	74	0.74	10	505	10	862	129	0.67	24	505	24	916	108	0.71
510	9	513	9	981	68	0.73	12	515	12	950	100	0.70	21	514	21	963	87	0.71
520	2	525	2	767	490	0.53	7	524	7	982	59	0.68	9	524	9	934	204	0.65
530	5	534	5	1120	33	0.73	11	535	11	1007	220	0.66	16	535	16	1042	188	0.68
540	3	541	3	1229	83	0.78	5	545	5	1195	222	0.74	8	544	8	1208	175	0.75
550	2	553	2	1275	35	0.76	7	554	7	1166	89	0.69	9	554	9	1190	91	0.70
560	.	.	.	.	.	.	7	564	7	1241	71	0.69	7	564	7	1241	71	0.69
570	.	.	.	.	.	.	4	574	4	1207	402	0.64	4	574	4	1207	402	0.64
580	.	.	.	.	.	.	3	586	3	1392	89	0.69	3	586	3	1392	89	0.69
670	.	.	.	.	.	.	1	675	1	2625	.	0.85	1	675	1	2625	.	0.85
700	1	701	1	2838	.	0.82	.	.	.	.	.	.	1	701	1	2838	.	0.82
710	.	.	.	.	.	.	1	710	1	3088	.	0.86	1	710	1	3088	.	0.86
780	.	.	.	.	.	.	1	786	1	3175	.	0.65	1	786	1	3175	.	0.65
TOTAL/MEAN	144	456	144	732	313	0.72	132	498	132	907	426	0.69	282	472	282	802	389	0.71

Table 22. Length and weight data, by 10mm fork length intervals, for northern pike caught by "bay" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
220	1	226	1	82	.	0.71	.	.	.	.	.	.	1	226	1	82	.	0.71
240	1	246	1	105	.	0.71	.	.	.	.	.	.	2	246	2	103	4	0.69
250	1	250	1	100	.	0.64	1	252	1	100	.	0.62	4	252	4	103	5	0.64
260	1	268	1	130	.	0.68	2	265	2	130	0	0.70	3	266	3	130	0	0.69
270	1	270	1	125	.	0.64	.	.	.	.	.	.	1	270	1	125	.	0.64
280	1	285	1	165	.	0.71	1	282	1	140	.	0.62	2	284	2	153	18	0.67
290	1	294	1	180	.	0.71	.	.	.	.	.	.	2	294	2	170	14	0.67
300	1	306	1	200	.	0.70	2	301	2	180	0	0.66	3	302	3	187	12	0.67
310	3	314	3	221	9	0.71	2	314	2	170	85	0.55	5	314	5	200	51	0.65
320	2	326	2	250	14	0.72	.	.	.	.	.	.	2	326	2	250	14	0.72
330	2	337	2	275	21	0.72	.	.	.	.	.	.	3	336	3	260	30	0.68
340	1	343	1	290	.	0.72	1	343	1	310	.	0.77	3	342	3	287	25	0.71
350	1	350	1	300	.	0.70	.	.	.	.	.	.	1	350	1	300	.	0.70
360	2	363	2	335	7	0.70	1	360	1	310	.	0.66	3	362	3	327	15	0.69
370	5	373	5	374	19	0.72	3	373	3	380	0	0.73	8	373	8	376	15	0.72
380	1	387	1	440	.	0.76	1	383	1	420	.	0.75	2	385	2	430	14	0.75
390	5	395	5	450	12	0.73	2	393	2	395	35	0.65	7	394	7	434	32	0.71
400	7	405	7	484	19	0.73	2	405	2	455	35	0.69	9	405	9	478	24	0.72
410	6	413	6	511	43	0.73	3	417	3	503	6	0.69	9	414	9	508	34	0.72
420	4	425	4	540	39	0.70	5	426	5	541	34	0.70	9	425	9	541	34	0.70
430	5	436	5	612	31	0.74	2	437	2	615	21	0.74	7	436	7	613	27	0.74
440	8	445	8	646	71	0.73	4	443	4	630	16	0.72	12	445	12	640	58	0.73
450	8	454	8	700	52	0.75	5	453	5	681	35	0.73	13	453	13	693	46	0.74
460	4	466	4	753	53	0.75	4	462	4	670	87	0.68	8	464	8	711	80	0.71
470	6	476	6	791	76	0.73	6	476	6	796	41	0.74	12	476	12	793	58	0.74
480	10	483	10	839	42	0.74	7	485	7	791	54	0.69	17	484	17	819	52	0.72
490	8	495	8	896	73	0.74	7	496	7	929	159	0.76	15	496	15	911	118	0.75
500	12	503	12	923	70	0.72	4	506	4	903	93	0.70	16	504	16	918	74	0.72
510	9	515	9	985	67	0.72	5	516	5	1025	59	0.74	14	515	14	999	65	0.73
520	5	523	5	1230	217	0.86	7	525	7	1046	82	0.72	12	524	12	1123	173	0.78
530	2	534	2	1265	92	0.83	7	535	7	1038	87	0.68	9	535	9	1088	129	0.71
540	7	545	7	1091	161	0.67	6	544	6	1111	72	0.69	13	545	13	1100	124	0.68
550	1	553	1	1180	.	0.70	1	555	1	990	.	0.58	2	554	2	1085	134	0.64
560	1	561	1	1200	.	0.68	3	562	3	1267	74	0.71	4	562	4	1250	69	0.71
570	2	577	2	1475	49	0.77	.	.	.	.	.	.	2	577	2	1475	49	0.77
580	1	580	1	1420	.	0.73	2	585	2	1450	184	0.73	3	583	3	1440	131	0.73
600	1	605	1	1730	.	0.78	2	601	2	1415	106	0.65	3	602	3	1520	197	0.70
610	.	.	.	.	.	.	2	619	2	1780	156	0.75	2	619	2	1780	156	0.75
620	1	629	1	2000	.	0.80	.	.	.	.	.	.	1	629	1	2000	.	0.80
680	.	.	.	.	.	.	1	684	1	2300	.	0.72	1	684	1	2300	.	0.72
690	.	.	.	.	.	.	1	694	1	2070	.	0.62	1	694	1	2070	.	0.62
940	.	.	.	.	.	.	1	943	1	6305	.	0.75	1	943	1	6305	.	0.75
TOTAL/MEAN	138	451	138	733	349	0.73	103	480	103	880	672	0.72	247	459	247	780	519	0.72

Table 23. Length and weight data, by 10mm fork length intervals, for northern pike caught by "bay" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
210	2	214	2	61	6	0.62	.	.	.	.	.	.	2	214	2	61	6	0.62
220	1	228	1	74	.	0.62	2	228	2	78	8	0.66	3	228	3	77	6	0.65
230	2	235	2	85	0	0.66	1	230	1	77	.	0.63	3	233	3	82	5	0.65
240	3	243	3	91	6	0.63	1	240	1	92	.	0.67	4	243	4	91	5	0.64
250	2	254	2	107	25	0.65	.	.	.	.	.	.	2	254	2	107	25	0.65
260	1	266	1	132	.	0.70	1	261	1	120	.	0.67	2	264	2	126	8	0.69
270	2	277	2	150	0	0.71	3	274	3	141	8	0.69	5	275	5	145	7	0.70
280	3	284	3	147	11	0.64	1	280	1	169	.	0.77	4	283	4	153	14	0.67
290	2	290	2	180	14	0.74	.	.	.	.	.	.	2	290	2	180	14	0.74
300	5	306	5	195	15	0.68	4	307	4	186	12	0.64	9	306	9	191	14	0.67
320	1	325	1	244	.	0.71	.	.	.	.	.	.	1	325	1	244	.	0.71
330	1	330	1	250	.	0.70	2	332	2	245	7	0.67	3	331	3	247	6	0.68
340	2	342	2	295	7	0.74	.	.	.	.	.	.	2	342	2	295	7	0.74
350	2	354	2	310	14	0.70	2	356	2	305	7	0.68	4	355	4	308	10	0.69
360	5	364	5	344	26	0.71	.	.	.	.	.	.	5	364	5	344	26	0.71
370	3	376	3	368	20	0.70	2	377	2	348	46	0.65	5	376	5	360	29	0.68
380	4	384	4	393	46	0.70	3	385	3	410	10	0.72	7	384	7	400	34	0.70
390	5	393	5	424	36	0.70	.	.	.	.	.	.	5	393	5	424	36	0.70
400	6	406	6	483	36	0.72	1	404	1	510	.	0.77	7	406	7	487	35	0.73
410	6	414	6	525	29	0.74	3	416	3	477	21	0.66	9	415	9	509	35	0.71
420	5	423	5	536	38	0.71	2	424	2	545	35	0.72	7	423	7	538	35	0.71
430	4	433	4	623	37	0.77	3	435	3	547	50	0.66	7	434	7	590	56	0.72
440	5	445	5	608	24	0.69	2	446	2	615	21	0.69	7	445	7	610	22	0.69
450	6	454	6	661	39	0.71	4	452	4	630	38	0.68	10	453	10	649	40	0.70
460	9	465	9	702	33	0.70	4	466	4	718	24	0.71	13	465	13	707	30	0.70
470	6	473	6	758	43	0.72	1	470	1	700	.	0.67	7	473	7	749	45	0.71
480	5	484	5	812	98	0.72	4	484	4	805	19	0.71	9	484	9	809	70	0.71
490	7	493	7	870	72	0.72	5	494	5	799	88	0.66	12	494	12	840	83	0.70
500	8	505	8	971	73	0.76	9	504	9	886	52	0.69	17	504	17	926	75	0.72
510	3	513	3	940	122	0.69	11	515	11	923	55	0.68	14	515	14	926	68	0.68
520	7	525	7	1084	94	0.75	1	520	1	820	.	0.58	8	525	8	1051	128	0.73
530	6	535	6	1142	66	0.75	5	535	5	1050	64	0.68	11	535	11	1100	78	0.72
540	4	545	4	1089	63	0.67	3	542	3	1080	65	0.68	7	543	7	1085	58	0.68
550	5	553	5	1130	117	0.67	6	555	6	1195	150	0.70	11	554	11	1165	134	0.68
560	2	566	2	1300	42	0.72	5	563	5	1148	265	0.64	7	564	7	1191	229	0.67
570	2	572	2	1465	64	0.78	4	576	4	1350	64	0.71	6	575	6	1388	82	0.73
580	3	583	3	1523	67	0.77	2	580	2	1370	42	0.70	5	582	5	1462	99	0.74
590	1	590	1	1500	.	0.73	3	593	3	1308	244	0.63	4	593	4	1356	221	0.65
600	.	.	.	.	.	.	2	607	2	1530	99	0.68	2	607	2	1530	99	0.68
610	.	.	.	.	.	.	4	612	4	1655	203	0.72	4	612	4	1655	203	0.72
620	.	.	.	.	.	.	1	624	1	1930	.	0.79	1	624	1	1930	.	0.79

Table 23. continued

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
630	.	.	.	.	.	.	1	635	1	1920	.	0.75	1	635	1	1920	.	0.75
650	.	.	.	.	.	.	2	653	2	1930	113	0.69	2	653	2	1930	113	0.69
660	1	662	1	2540	.	0.88	3	666	3	2147	75	0.73	4	665	4	2245	206	0.76
700	.	.	.	.	.	.	1	700	1	2310	.	0.67	1	700	1	2310	.	0.67
760	1	767	1	3920	.	0.87	.	.	.	.	.	.	1	767	1	3920	.	0.87
770	.	.	.	.	.	.	1	776	1	3760	.	0.80	1	776	1	3760	.	0.80
TOTAL/MEAN	148	437	148	700	483	0.71	115	488	115	925	579	0.69	263	459	263	798	538	0.70

Table 24. Length and weight data, by 10mm fork length intervals, for northern pike caught by "bay" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
190	.	.	.	.	.	.												
200	.	.	.	.	.	.												
210	3	206	3	65	3	0.75	1	195	1	53	.	0.71	1	195	1	53	.	0.71
220	5	214	5	70	6	0.71	1	209	1	60	.	0.66	4	207	4	64	3	0.72
230	2	224	2	69	18	0.61	2	215	2	71	4	0.72	7	214	7	70	5	0.72
240	4	235	4	90	7	0.70	3	223	3	75	5	0.67	5	223	5	72	10	0.65
250	2	240	2	94	2	0.68	1	234	1	79	.	0.62	5	234	5	88	8	0.68
260	3	254	3	111	3	0.67	1	242	1	94	.	0.66	3	241	3	94	2	0.67
270	1	262	1	122	.	0.68	.	.	.	.	.	.	3	254	3	111	3	0.67
280	2	275	2	132	5	0.63	1	267	1	140	.	0.74	2	265	2	131	13	0.71
290	.	.	.	.	.	.	.	.	.	.	.	.	2	275	2	132	5	0.63
300	2	293	2	165	14	0.66	1	285	1	157	.	0.68	1	285	1	157	.	0.68
310	2	306	2	202	10	0.70	1	297	1	187	.	0.71	3	294	3	172	16	0.68
320	2	315	2	217	30	0.69	1	305	1	203	.	0.72	3	306	3	202	7	0.71
340	3	324	3	247	26	0.73	.	.	.	.	.	.	2	315	2	217	30	0.69
350	1	343	1	250	.	0.62	1	326	1	245	.	0.71	4	325	4	246	22	0.72
360	3	358	3	327	12	0.71	.	.	.	.	.	.	1	343	1	250	.	0.62
370	1	368	1	320	.	0.64	1	359	1	307	.	0.66	4	358	4	322	14	0.70
380	2	372	2	349	4	0.68	.	.	.	.	.	.	1	368	1	320	.	0.64
390	2	382	2	430	28	0.77	.	.	.	.	.	.	2	372	2	349	4	0.68
400	9	394	9	439	31	0.72	1	385	1	352	.	0.62	3	383	3	404	49	0.72
410	2	407	2	500	14	0.74	2	397	2	418	12	0.67	11	394	11	435	29	0.71
420	6	415	6	477	26	0.67	2	403	2	440	14	0.67	4	405	4	470	37	0.71
430	4	424	4	508	15	0.67	.	.	.	.	.	.	6	415	6	477	26	0.67
440	7	433	7	580	35	0.71	1	423	1	510	.	0.67	5	423	5	508	13	0.67
450	5	443	5	662	44	0.76	2	436	2	555	21	0.67	9	434	9	575	33	0.70
460	5	455	5	684	55	0.72	1	447	1	700	.	0.78	6	444	6	668	43	0.76
470	6	462	6	732	112	0.74	1	450	1	810	.	0.89	6	455	6	705	71	0.75
480	3	473	3	750	70	0.71	4	465	4	705	54	0.70	10	463	10	721	90	0.73
490	5	485	5	842	25	0.74	.	.	.	.	.	.	3	473	3	750	70	0.71
500	3	497	3	953	81	0.78	2	485	2	895	106	0.78	7	485	7	857	54	0.75
510	3	505	3	893	75	0.69	2	495	2	830	57	0.68	5	496	5	904	93	0.74
520	3	513	3	1000	26	0.74	2	504	2	870	57	0.68	5	504	5	884	61	0.69
530	.	.	.	.	.	.	6	514	6	968	86	0.71	9	514	9	979	71	0.72
540	3	531	3	1133	146	0.76	4	526	4	1050	81	0.72	4	526	4	1050	81	0.72
550	5	544	5	1170	48	0.73	3	535	3	1067	50	0.70	6	533	6	1100	104	0.73
560	2	554	2	1290	156	0.76	1	542	1	1100	.	0.69	6	544	6	1158	52	0.72
570	2	564	2	1255	49	0.70	3	552	3	1183	78	0.70	5	553	5	1226	112	0.73
580	3	574	3	1053	836	0.56	3	562	3	1257	116	0.71	5	563	5	1256	86	0.71
590	3	582	3	1430	78	0.72	2	574	2	1400	28	0.74	5	574	5	1192	621	0.63
600	2	593	2	1560	0	0.75	5	583	5	1360	96	0.69	8	583	8	1386	91	0.70
610	1	600	1	1510	.	0.70	2	592	2	1385	7	0.67	4	593	4	1473	101	0.71
620	.	.	.	.	.	.	1	600	1	1610	.	0.75	2	600	2	1560	71	0.72
	.	.	.	.	.	.	2	617	2	1615	78	0.69	2	617	2	1615	78	0.69
							1	627	1	1710	.	0.69	1	627	1	1710	.	0.69

Table 24. continued

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
630	.	.	.	.	.	.	3	636	3	1820	72	0.71	3	636	3	1820	72	0.71
660	1	660	1	2030	.	0.71	.	.	.	.	.	.	1	660	1	2030	.	0.71
710	.	.	.	.	.	.	1	712	1	2360	.	0.65	1	712	1	2360	.	0.65
770	.	.	.	.	.	.	1	776	1	3430	.	0.73	1	776	1	3430	.	0.73
780	.	.	.	.	.	.	1	780	1	3770	.	0.79	1	780	1	3770	.	0.79
810	.	.	.	.	.	.	1	817	1	4630	.	0.85	1	817	1	4630	.	0.85
830	.	.	.	.	.	.	1	833	1	5410	.	0.94	1	833	1	5410	.	0.94
TOTAL/MEAN	123	414	123	613	435	0.71	76	487	76	1062	950	0.71	199	442	199	785	711	0.71

Table 25. Length and weight data, by 10mm fork length intervals, for northern pike caught by "bay" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
200	.	.	.	.	.	.	1	208	1	62	.	0.69	1	208	1	62	.	0.69
210	4	217	4	71	6	0.70	.	.	.	.	.	.	4	217	4	71	6	0.70
220	1	227	1	85	.	0.73	1	223	1	72	.	0.65	2	225	2	79	9	0.69
230	7	235	7	105	35	0.81	1	231	1	86	.	0.70	8	234	8	102	33	0.80
240	7	244	7	105	12	0.72	1	249	1	98	.	0.63	8	245	8	104	11	0.71
250	2	257	2	118	10	0.70	2	255	2	119	3	0.72	4	256	4	119	6	0.71
260	4	262	4	126	9	0.70	1	268	1	136	.	0.71	5	263	5	128	9	0.70
270	5	274	5	154	6	0.75	4	276	4	143	6	0.68	9	275	9	149	8	0.72
280	3	286	3	183	25	0.78	.	.	.	.	.	.	3	286	3	183	25	0.78
290	6	295	6	191	8	0.74	3	294	3	191	16	0.75	9	295	9	191	10	0.75
300	1	303	1	220	.	0.79	2	303	2	210	0	0.75	3	303	3	213	6	0.77
310	1	310	1	195	.	0.65	1	315	1	220	.	0.70	2	313	2	208	18	0.68
320	1	325	1	255	.	0.74	2	326	2	229	30	0.66	3	325	3	238	26	0.69
330	2	333	2	276	6	0.75	1	333	1	250	.	0.68	3	333	3	267	15	0.73
340	1	345	1	296	.	0.72	2	346	2	295	6	0.71	3	346	3	295	5	0.71
350	3	354	3	302	19	0.68	3	355	3	337	37	0.76	6	355	6	320	33	0.72
360	4	365	4	370	26	0.76	2	369	2	345	49	0.69	6	366	6	362	33	0.74
370	4	375	4	403	21	0.76	8	376	8	379	14	0.71	12	375	12	387	19	0.73
380	3	384	3	450	21	0.79	5	384	5	402	31	0.71	8	384	8	420	36	0.74
390	3	393	3	457	6	0.75	2	396	2	450	42	0.72	5	394	5	454	22	0.74
400	2	402	2	500	14	0.77	4	404	4	481	42	0.73	6	403	6	487	34	0.74
410	3	414	3	523	21	0.74	3	412	3	513	35	0.73	6	413	6	518	26	0.74
420	4	425	4	593	51	0.77	2	426	2	540	28	0.70	6	425	6	575	49	0.75
430	5	436	5	640	31	0.77	1	431	1	500	.	0.62	6	435	6	617	63	0.75
440	2	447	2	695	21	0.78	.	.	.	.	.	.	2	447	2	695	21	0.78
450	5	455	5	722	74	0.77	3	456	3	713	40	0.75	8	455	8	719	60	0.76
460	4	467	4	810	48	0.80	2	463	2	740	28	0.75	6	466	6	787	54	0.78
470	5	476	5	830	78	0.77	.	.	.	.	.	.	5	476	5	830	78	0.77
480	1	484	1	1000	.	0.88	.	.	.	.	.	.	1	484	1	1000	.	0.88
490	3	495	3	990	66	0.81	1	492	1	840	.	0.71	4	495	4	953	92	0.79
500	6	505	6	995	36	0.78	4	504	4	923	64	0.72	10	504	10	966	59	0.75
510	1	515	1	1110	.	0.81	3	516	3	983	45	0.71	4	516	4	1015	73	0.74
520	2	523	2	1060	28	0.74	2	522	2	970	42	0.68	4	522	4	1015	60	0.71
530	1	538	1	1420	.	0.91	.	.	.	.	.	.	1	538	1	1420	.	0.91
540	.	.	.	.	.	.	1	541	1	1110	.	0.70	1	541	1	1110	.	0.70
550	1	550	1	1250	.	0.75	1	553	1	480	.	0.28	2	552	2	865	544	0.52
560	1	563	1	1330	.	0.75	.	.	.	.	.	.	1	563	1	1330	.	0.75
580	1	585	1	1630	.	0.81	1	584	1	1580	.	0.79	2	585	2	1605	35	0.80
TOTAL/MEAN	109	371	109	483	364	0.76	70	386	70	467	307	0.71	179	377	179	476	342	0.74

Table 26. Length and weight data, by 10mm fork length intervals, for white sucker caught by "dock" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
.	.	.	1	613	.	.	.	.	.	.	.	.	.	.	2	333	397	.
150	.	.	.	.	.	.	1	157	1	46	.	1.19	11	157	11	44	44	1.15
160	1	168	1	57	.	1.20	1	162	1	53	.	1.25	11	165	11	52	4	1.17
170	.	.	.	.	.	.	.	.	.	.	.	.	7	171	7	58	3	1.16
180	.	.	.	.	.	.	.	.	.	.	.	.	2	185	2	74	10	1.17
210	.	.	.	.	.	.	1	216	1	135	.	1.34	1	216	1	135	.	1.34
220	.	.	.	.	.	.	.	.	.	.	.	.	1	229	1	147	.	1.22
240	.	.	.	.	.	.	.	.	.	.	.	.	1	243	1	191	.	1.33
260	1	264	1	222	.	1.21	2	264	2	249	9	1.35	4	264	4	249	22	1.35
270	.	.	.	.	.	.	2	275	2	280	28	1.35	3	275	3	278	20	1.34
280	.	.	.	.	.	.	.	.	.	.	.	.	3	286	3	329	32	1.41
290	3	296	3	355	24	1.37	1	290	1	360	.	1.48	6	296	6	351	20	1.36
300	2	301	2	393	11	1.44	2	305	2	376	18	1.33	4	303	4	384	16	1.39
310	1	312	1	450	.	1.48	4	313	4	422	28	1.38	5	312	5	428	27	1.40
320	2	326	2	450	0	1.31	4	325	4	522	26	1.53	6	325	6	498	42	1.45
330	5	335	5	525	25	1.40	15	336	15	537	40	1.41	20	336	20	534	36	1.41
340	6	342	6	575	22	1.44	13	345	13	587	49	1.43	19	344	19	583	42	1.43
350	3	353	3	601	34	1.37	5	355	5	638	37	1.42	8	355	8	624	38	1.40
360	1	365	1	600	.	1.23	1	363	1	713	.	1.49	2	364	2	657	80	1.36
370	.	.	.	.	.	.	5	372	5	758	60	1.47	5	372	5	758	60	1.47
380	.	.	.	.	.	.	5	383	5	763	28	1.35	5	383	5	763	28	1.35
390	1	393	1	925	.	1.52	1	391	1	925	.	1.55	2	392	2	925	0	1.54
410	.	.	.	.	.	.	2	415	2	1019	8	1.43	2	415	2	1019	8	1.43
420	.	.	.	.	.	.	1	422	1	975	.	1.30	1	422	1	975	.	1.30
TOTAL/MEAN	26	324	27	500	158	1.38	66	336	66	565	197	1.41	131	292	133	417	260	1.34

Table 27. Length and weight data, by 10mm fork length intervals, for white sucker caught by "dock" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
140	.	.	.	.	.	.	.	.	.	.	.	.	1	145	1	38	.	1.25
150	.	.	.	.	.	.	.	.	.	.	.	.	7	154	7	47	4	1.29
160	.	.	.	.	.	.	.	.	.	.	.	.	5	165	5	55	6	1.23
170	.	.	.	.	.	.	.	.	.	.	.	.	5	171	5	59	3	1.18
180	1	180	1	82	.	1.41	.	.	.	.	.	.	2	181	2	77	7	1.30
190	1	192	1	89	.	1.26	.	.	.	.	.	.	1	192	1	89	.	1.26
200	.	.	.	.	.	.	.	.	.	.	.	.	1	206	1	106	.	1.21
250	.	.	.	.	.	.	1	256	1	220	.	1.31	2	254	2	213	10	1.30
260	.	.	.	.	.	.	1	262	1	282	.	1.57	1	262	1	282	.	1.57
270	.	.	.	.	.	.	1	270	1	290	.	1.47	1	270	1	290	.	1.47
280	1	284	1	310	.	1.35	.	.	.	.	.	.	1	284	1	310	.	1.35
300	1	309	1	450	.	1.53	1	306	1	400	.	1.40	2	308	2	425	35	1.46
310	.	.	.	.	.	.	1	310	1	460	.	1.54	1	310	1	460	.	1.54
320	2	326	2	485	35	1.41	.	.	.	.	.	.	2	326	2	485	35	1.41
330	2	337	2	580	42	1.51	1	334	1	580	.	1.56	3	336	3	580	30	1.53
340	6	344	6	582	44	1.43	5	344	5	574	45	1.41	11	344	11	578	42	1.42
350	1	354	1	660	.	1.49	6	357	6	647	72	1.42	7	356	7	649	66	1.43
360	1	364	1	700	.	1.45	8	364	8	671	62	1.39	9	364	9	674	59	1.40
370	1	379	1	740	.	1.36	2	373	2	725	7	1.40	3	375	3	730	10	1.38
380	1	387	1	780	.	1.35	3	387	3	873	93	1.51	4	387	4	850	89	1.47
390	.	.	.	.	.	.	1	391	1	840	.	1.41	1	391	1	840	.	1.41
400	.	.	.	.	.	.	2	407	2	1035	92	1.54	2	407	2	1035	92	1.54
TOTAL/MEAN	18	324	18	524	194	1.42	33	352	33	646	191	1.43	72	292	72	446	299	1.37

Table 28. Length and weight data, by 10mm fork length intervals, for white sucker caught by "dock" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
150	1	152	1	44	.	1.25	.	.	.	.	.	.	3	153	3	45	1	1.25
160	3	162	3	51	3	1.21	1	163	1	56	.	1.29	6	162	6	50	6	1.19
170	.	.	.	.	.	.	2	173	2	68	5	1.30	6	174	6	63	9	1.19
180	4	186	4	73	18	1.13	1	185	1	81	.	1.28	6	185	6	73	14	1.15
190	.	.	.	.	.	.	2	193	2	86	6	1.20	3	192	3	87	6	1.24
220	1	228	1	156	.	1.32	.	.	.	.	.	.	1	228	1	156	.	1.32
230	2	237	2	172	16	1.30	.	.	.	.	.	.	2	237	2	172	16	1.30
260	.	.	.	.	.	.	1	265	1	256	.	1.38	1	265	1	256	.	1.38
310	3	316	3	490	36	1.56	.	.	.	.	.	.	3	316	3	490	36	1.56
320	1	325	1	480	.	1.40	1	325	1	480	.	1.40	2	325	2	480	0	1.40
330	2	337	2	555	64	1.46	6	335	6	570	33	1.52	8	335	8	566	37	1.51
340	4	343	4	571	59	1.41	6	343	6	555	70	1.38	10	343	10	562	63	1.39
350	8	353	8	621	31	1.41	8	352	8	634	34	1.45	16	353	16	628	32	1.43
360	4	366	4	690	84	1.41	14	363	14	685	55	1.43	18	364	18	686	60	1.43
370	3	375	3	723	67	1.37	8	372	8	723	54	1.40	11	373	11	723	54	1.39
380	1	386	1	860	.	1.50	3	384	3	820	106	1.45	4	384	4	830	89	1.46
390	.	.	.	.	.	.	2	393	2	825	92	1.36	2	393	2	825	92	1.36
400	.	.	.	.	.	.	8	403	8	888	57	1.36	8	403	8	888	57	1.36
410	.	.	.	.	.	.	1	410	1	920	.	1.33	1	410	1	920	.	1.33
420	.	.	.	.	.	.	2	423	2	1110	127	1.47	2	423	2	1110	127	1.47
TOTAL/MEAN	37	303	37	462	261	1.36	66	349	66	647	235	1.41	113	318	113	534	289	1.37

Table 29. Length and weight data, by 10mm fork length intervals, for white sucker caught by "dock" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
150	5	156	5	48	4	1.25	2	155	2	49	4	1.32	8	156	8	47	4	1.23
160	10	163	10	54	3	1.24	8	164	8	56	5	1.25	18	163	18	54	4	1.25
170	3	175	3	70	10	1.32	5	173	5	65	4	1.27	8	173	8	67	7	1.29
180	1	183	1	82	.	1.34	.	.	.	.	.	.	1	183	1	82	.	1.34
190	.	.	.	.	.	.	1	196	1	93	.	1.24	2	196	2	95	3	1.27
310	.	.	.	.	.	.	1	319	1	510	.	1.57	1	319	1	510	.	1.57
320	1	322	1	490	.	1.47	.	.	.	.	.	.	1	322	1	490	.	1.47
330	2	335	2	560	57	1.49	2	333	2	540	28	1.47	4	334	4	550	38	1.48
340	1	343	1	610	.	1.51	2	345	2	595	7	1.46	3	344	3	600	10	1.47
350	3	352	3	663	21	1.52	2	354	2	625	21	1.41	5	353	5	648	28	1.48
360	1	360	1	680	.	1.46	1	363	1	660	.	1.38	2	362	2	670	14	1.42
370	1	374	1	810	.	1.55	2	373	2	770	99	1.48	3	373	3	783	74	1.51
380	2	381	2	810	85	1.46	4	381	4	793	43	1.43	6	381	6	798	52	1.44
390	.	.	.	.	.	.	3	394	3	940	35	1.54	3	394	3	940	35	1.54
400	.	.	.	.	.	.	1	407	1	930	.	1.38	1	407	1	930	.	1.38
410	.	.	.	.	.	.	1	416	1	1060	.	1.47	1	416	1	1060	.	1.47
TOTAL/MEAN	30	233	30	280	306	1.35	35	277	35	433	368	1.37	67	255	67	354	346	1.35

Table 30. Length and weight data, by 10mm fork length intervals, for white sucker caught by "dock" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
150	1	154	1	45	.	1.23	4	156	4	49	2	1.31	6	156	6	48	3	1.27
160	9	164	9	52	5	1.16	8	165	8	58	20	1.30	21	165	21	54	13	1.21
170	11	175	11	64	7	1.21	4	174	4	61	7	1.14	16	174	16	64	7	1.20
180	4	183	4	76	4	1.24	5	183	5	80	5	1.29	9	183	9	78	5	1.27
200	.	.	.	.	.	.	1	205	1	105	.	1.22	2	206	2	113	11	1.30
230	1	237	1	200	.	1.50	.	.	.	.	.	.	1	237	1	200	.	1.50
280	.	.	.	.	.	.	1	286	1	318	.	1.36	1	286	1	318	.	1.36
290	.	.	.	.	.	.	1	290	1	370	.	1.52	1	290	1	370	.	1.52
310	1	316	1	480	.	1.52	1	313	1	460	.	1.50	2	315	2	470	14	1.51
320	1	329	1	550	.	1.54	1	320	1	500	.	1.53	2	325	2	525	35	1.54
330	2	335	2	555	64	1.48	1	335	1	540	.	1.44	3	335	3	550	46	1.47
340	3	347	3	633	38	1.52	2	346	2	600	0	1.45	5	346	5	620	32	1.49
350	2	352	2	690	14	1.58	6	354	6	658	45	1.48	8	354	8	666	41	1.50
360	4	363	4	705	34	1.47	4	362	4	768	57	1.61	8	363	8	736	55	1.54
370	1	375	1	800	.	1.52	2	374	2	790	99	1.51	3	374	3	793	70	1.51
380	2	388	2	905	78	1.55	.	.	.	.	.	.	2	388	2	905	78	1.55
390	1	398	1	1020	.	1.62	4	395	4	908	68	1.47	5	396	5	930	77	1.50
400	.	.	.	.	.	.	2	406	2	970	14	1.45	2	406	2	970	14	1.45
420	.	.	.	.	.	.	2	421	2	1145	78	1.53	2	421	2	1145	78	1.53
430	.	.	.	.	.	.	1	432	1	1210	.	1.50	1	432	1	1210	.	1.50
440	.	.	.	.	.	.	1	440	1	1280	.	1.50	1	440	1	1280	.	1.50
TOTAL/MEAN	43	246	43	316	326	1.33	51	283	51	466	398	1.40	101	259	101	374	369	1.36

Table 31. Length and weight data, by 10mm fork length intervals, for white sucker caught by "bay" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
.	.	.	1	550	.	.	.	.	.	.	.	.	.	.	3	642	101	.
150	1	157	1	48	.	1.24	.	.	.	.	.	.	4	157	4	47	3	1.21
160	.	.	.	.	.	.	1	160	1	49	.	1.20	5	164	5	51	6	1.16
170	.	.	.	.	.	.	.	.	.	.	.	.	4	177	4	67	3	1.21
180	.	.	.	.	.	.	.	.	.	.	.	.	3	184	3	75	5	1.20
220	.	.	.	.	.	.	1	229	1	136	.	1.13	1	229	1	136	.	1.13
230	1	237	1	170	.	1.28	.	.	.	.	.	.	1	237	1	170	.	1.28
250	.	.	.	.	.	.	1	254	1	225	.	1.37	2	252	2	220	8	1.37
260	.	.	.	.	.	.	2	263	2	253	10	1.39	2	263	2	253	10	1.39
270	2	274	2	315	21	1.54	3	275	3	274	25	1.32	6	274	6	289	27	1.41
280	1	280	1	325	.	1.48	4	284	4	315	28	1.37	5	283	5	317	25	1.40
290	.	.	.	.	.	.	4	292	4	344	23	1.38	5	293	5	346	20	1.37
300	.	.	.	.	.	.	1	304	1	400	.	1.42	2	306	2	384	23	1.35
310	2	317	2	451	18	1.42	6	315	6	439	21	1.40	11	315	11	436	36	1.39
320	7	324	7	523	43	1.53	5	326	5	529	66	1.52	13	325	13	524	49	1.53
330	5	335	5	531	42	1.41	8	334	8	559	61	1.50	13	334	13	548	55	1.47
340	8	344	8	594	20	1.46	13	345	13	603	45	1.47	21	345	21	600	37	1.46
350	11	353	11	642	40	1.46	18	355	18	657	56	1.47	29	354	29	651	50	1.47
360	9	365	9	737	46	1.51	20	364	20	681	99	1.41	29	364	29	698	89	1.44
370	6	374	6	750	27	1.44	14	373	14	798	48	1.53	20	373	20	784	48	1.50
380	3	382	3	825	66	1.48	12	384	12	794	77	1.40	15	384	15	800	74	1.42
390	1	390	1	800	.	1.35	10	393	10	831	56	1.37	11	393	11	828	54	1.37
400	1	401	1	813	.	1.26	5	405	5	1025	90	1.55	6	404	6	990	118	1.50
410	1	415	1	975	.	1.36	2	416	2	1094	44	1.52	3	415	3	1054	75	1.47
TOTAL/MEAN	59	344	60	616	164	1.46	130	351	130	647	203	1.44	211	335	214	590	235	1.43

Table 32. Length and weight data, by 10mm fork length intervals, for white sucker caught by "bay" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
160	.	.	.	.	.	.	.	.	.	.	.	.	1	168	1	55	.	1.16
170	.	.	.	.	.	.	.	.	.	.	.	.	1	174	1	68	.	1.29
180	.	.	.	.	.	.	.	.	.	.	.	.	2	184	2	73	1	1.22
190	.	.	.	.	.	.	.	.	.	.	.	.	1	190	.	76	.	1.11
210	.	.	.	.	.	.	1	210	1	115	.	1.24	1	210	1	115	.	1.24
250	.	.	.	.	.	.	1	258	1	232	.	1.35	1	258	1	232	.	1.35
260	.	.	.	.	.	.	2	263	2	260	28	1.44	4	266	4	270	22	1.44
270	.	.	.	.	.	.	2	273	2	285	28	1.41	2	273	2	285	28	1.41
280	.	.	.	.	.	.	2	286	2	340	28	1.45	2	286	2	340	28	1.45
310	1	316	1	490	.	1.55	.	.	.	.	.	.	1	316	1	490	.	1.55
320	.	.	.	.	.	.	2	323	2	470	28	1.40	2	323	2	470	28	1.40
330	6	334	6	558	25	1.50	1	336	1	530	.	1.40	7	334	7	554	25	1.49
340	12	345	12	609	40	1.49	5	345	5	606	61	1.48	17	345	17	608	45	1.49
350	6	355	6	652	56	1.46	6	355	6	667	57	1.49	12	355	12	659	55	1.47
360	9	362	9	723	32	1.52	6	366	6	712	34	1.45	15	364	15	718	32	1.50
370	3	377	3	740	101	1.38	8	374	8	736	49	1.41	11	375	11	737	61	1.40
380	3	383	3	787	83	1.40	7	387	7	836	65	1.45	10	386	10	821	70	1.43
390	2	391	2	820	28	1.38	5	395	5	854	86	1.39	7	393	7	844	73	1.39
400	.	.	.	.	.	.	3	404	3	950	62	1.44	3	404	3	950	62	1.44
410	1	412	1	920	.	1.32	5	414	5	962	61	1.36	6	413	6	955	57	1.35
420	.	.	.	.	.	.	3	422	3	1140	87	1.52	3	422	3	1140	87	1.52
430	.	.	.	.	.	.	1	433	1	1040	.	1.28	1	433	1	1040	.	1.28
460	.	.	.	.	.	.	1	466	1	1370	.	1.35	1	466	1	1370	.	1.35
TOTAL/MEAN	43	356	43	667	100	1.47	61	365	61	728	251	1.43	111	351	111	667	243	1.44

Table 33. Length and weight data, by 10mm fork length intervals, for white sucker caught by "bay" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	57	5	.
150	.	.	.	.	.	.	1	154	1	45	.	1.23	3	154	3	45	3	1.23
160	.	.	.	.	.	.	1	165	1	60	.	1.34	8	167	8	52	4	1.13
170	1	174	1	62	.	1.18	1	175	1	68	.	1.27	12	175	12	60	6	1.13
180	1	188	1	85	.	1.28	1	182	1	76	.	1.26	5	185	5	73	9	1.16
190	4	193	4	86	7	1.19	2	194	2	92	11	1.25	7	194	7	88	7	1.21
200	1	208	1	123	.	1.37	2	201	2	103	4	1.27	3	203	3	110	12	1.30
210	.	.	.	.	.	.	1	213	1	127	.	1.31	1	213	1	127	.	1.31
240	1	248	1	220	.	1.44	.	.	.	.	.	.	1	248	1	220	.	1.44
250	1	259	1	240	.	1.38	.	.	.	.	.	.	1	259	1	240	.	1.38
260	1	261	1	240	.	1.35	1	265	1	240	.	1.29	2	263	2	240	0	1.32
270	.	.	.	.	.	.	1	270	1	300	.	1.52	1	270	1	300	.	1.52
280	.	.	.	.	.	.	1	284	1	300	.	1.31	2	286	2	310	14	1.32
290	1	290	1	290	.	1.19	.	.	.	.	.	.	1	290	1	290	.	1.19
300	2	307	2	370	127	1.28	2	304	2	385	21	1.37	4	305	4	378	75	1.33
310	3	313	3	453	61	1.48	6	314	6	460	26	1.48	9	314	9	458	37	1.48
320	3	323	3	503	59	1.49	1	320	1	480	.	1.46	4	323	4	498	49	1.48
330	12	334	12	560	35	1.50	2	333	2	540	0	1.46	14	334	14	557	33	1.49
340	14	345	14	578	73	1.40	11	342	11	587	43	1.46	25	344	25	582	60	1.43
350	19	355	19	631	47	1.41	6	355	6	662	19	1.49	25	355	25	638	44	1.43
360	14	363	14	685	40	1.43	9	362	9	681	65	1.43	23	363	23	683	50	1.43
370	6	374	6	703	44	1.35	15	373	15	731	36	1.41	21	373	21	723	39	1.39
380	4	383	4	755	41	1.34	14	384	14	774	70	1.36	18	384	18	770	64	1.36
390	.	.	.	.	.	.	6	392	6	877	63	1.45	6	392	6	877	63	1.45
400	1	400	1	1010	.	1.58	7	404	7	937	72	1.42	8	403	8	946	71	1.44
410	.	.	.	.	.	.	6	413	6	947	73	1.35	6	413	6	947	73	1.35
420	.	.	.	.	.	.	4	422	4	960	78	1.28	4	422	4	960	78	1.28
TOTAL/MEAN	90	335	90	560	185	1.40	101	352	101	657	247	1.39	215	325	217	546	276	1.37

Table 34. Length and weight data, by 10mm fork length intervals, for white sucker caught by "bay" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
140	.	.	.	.	.	.	.	.	.	.	.	.	1	149	1	46	.	1.39
150	11	156	11	50	4	1.32	5	156	5	50	7	1.33	18	155	18	49	5	1.31
160	9	164	9	55	7	1.25	11	165	11	59	6	1.31	21	164	21	56	7	1.28
170	5	175	5	67	9	1.24	8	174	8	72	9	1.38	13	174	13	70	9	1.32
180	4	184	4	83	10	1.33	4	186	4	77	6	1.21	8	185	8	80	8	1.27
190	2	194	2	95	0	1.31	.	.	.	.	.	.	2	194	2	95	0	1.31
200	1	205	1	117	.	1.36	1	208	1	111	.	1.23	2	207	2	114	4	1.30
210	1	218	1	130	.	1.25	.	.	.	.	.	.	1	218	1	130	.	1.25
220	2	227	2	149	8	1.28	.	.	.	.	.	.	2	227	2	149	8	1.28
230	1	231	1	165	.	1.34	.	.	.	.	.	.	1	231	1	165	.	1.34
240	3	247	3	186	31	1.24	2	244	2	200	28	1.37	5	246	5	192	27	1.29
250	3	251	3	222	20	1.40	7	254	7	233	25	1.41	10	254	10	230	23	1.41
260	.	.	.	.	.	.	10	265	10	244	65	1.31	10	265	10	244	65	1.31
270	2	274	2	310	14	1.51	1	273	1	310	.	1.52	3	273	3	310	10	1.52
280	4	284	4	312	9	1.36	3	282	3	323	22	1.43	7	283	7	317	15	1.39
290	2	294	2	415	7	1.63	1	297	1	360	.	1.37	3	295	3	397	32	1.55
300	1	305	1	400	.	1.41	.	.	.	.	.	.	1	305	1	400	.	1.41
310	2	317	2	480	28	1.51	3	313	3	453	55	1.48	5	315	5	464	44	1.49
320	3	322	3	483	45	1.45	1	321	1	500	.	1.51	4	322	4	488	38	1.47
330	5	332	5	536	23	1.47	2	338	2	615	49	1.60	7	333	7	559	47	1.51
340	4	344	4	547	79	1.35	5	344	5	630	37	1.55	10	344	10	593	66	1.46
350	4	354	4	668	76	1.50	10	355	10	668	49	1.50	14	354	14	668	55	1.50
360	4	365	4	698	26	1.44	8	364	8	695	59	1.44	12	364	12	696	49	1.44
370	3	375	3	817	90	1.54	5	374	5	750	51	1.43	8	375	8	775	71	1.47
380	1	382	1	820	.	1.47	4	384	4	828	57	1.46	5	384	5	826	50	1.46
390	.	.	.	.	.	.	4	394	4	890	80	1.45	4	394	4	890	80	1.45
400	.	.	.	.	.	.	2	403	2	865	7	1.33	2	403	2	865	7	1.33
410	.	.	.	.	.	.	6	415	6	1020	72	1.43	6	415	6	1020	72	1.43
420	.	.	.	.	.	.	1	425	1	1100	.	1.43	1	425	1	1100	.	1.43
440	1	446	1	1150	.	1.30	1	446	1	1290	.	1.43	2	447	2	1220	99	1.37
TOTAL/MEAN	78	256	78	309	272	1.37	105	291	105	451	337	1.40	188	273	188	384	318	1.39

Table 35. Length and weight data, by 10mm fork length intervals, for white sucker caught by "bay" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
130	.	.	.	.	.	.	1	139	1	37	.	1.38	1	139	1	37	.	1.38
140	1	148	1	42	.	1.30	.	.	.	.	.	.	1	148	1	42	.	1.30
150	4	156	4	47	3	1.25	3	155	3	46	4	1.24	8	156	8	47	3	1.23
160	11	165	11	52	5	1.16	4	165	4	52	5	1.15	17	165	17	51	5	1.14
170	8	174	8	62	5	1.17	3	175	3	69	7	1.29	15	174	15	63	6	1.19
180	4	184	4	79	2	1.27	8	183	8	76	3	1.23	14	183	14	76	4	1.23
190	3	195	3	98	6	1.33	5	195	5	88	5	1.20	9	194	9	92	7	1.25
200	2	203	2	108	6	1.30	3	206	3	117	13	1.33	6	205	6	113	10	1.31
210	1	218	1	123	.	1.19	2	213	2	125	8	1.29	3	215	3	124	6	1.26
220	.	.	.	.	.	.	2	225	2	166	35	1.45	2	225	2	166	35	1.45
240	1	242	1	210	.	1.48	4	245	4	213	10	1.45	5	244	5	212	8	1.46
250	8	254	8	240	20	1.46	6	255	6	233	14	1.42	14	254	14	237	17	1.44
260	7	264	7	267	20	1.45	8	262	8	273	21	1.52	15	263	15	270	20	1.49
270	7	274	7	307	22	1.48	8	273	8	311	15	1.53	15	274	15	309	18	1.51
280	4	286	4	327	19	1.40	2	286	2	345	7	1.47	6	286	6	333	18	1.43
290	3	292	3	373	21	1.49	5	292	5	370	35	1.48	8	292	8	371	29	1.48
300	5	303	5	414	17	1.49	5	305	5	432	30	1.52	10	304	10	423	25	1.51
310	1	315	1	460	.	1.47	.	.	.	.	.	.	1	315	1	460	.	1.47
320	4	326	4	550	32	1.59	3	326	3	517	15	1.49	7	326	7	536	30	1.55
330	1	332	1	510	.	1.39	5	336	5	570	22	1.50	6	336	6	560	32	1.48
340	7	343	7	633	65	1.56	8	344	8	655	22	1.61	15	344	15	645	47	1.59
350	1	350	1	650	.	1.52	7	354	7	609	34	1.51	8	353	8	666	32	1.51
360	5	364	5	672	110	1.39	4	365	4	760	49	1.57	9	364	9	711	95	1.47
370	5	373	5	780	87	1.51	3	373	3	817	57	1.57	8	373	8	794	75	1.53
380	1	385	1	770	.	1.35	4	384	4	838	43	1.48	5	384	5	824	48	1.46
390	3	394	3	927	55	1.51	2	397	2	925	21	1.48	5	395	5	926	40	1.50
400	.	.	.	.	.	.	2	406	2	990	57	1.49	2	406	2	990	57	1.49
410	.	.	.	.	.	.	3	414	3	1007	91	1.42	3	414	3	1007	91	1.42
420	.	.	.	.	.	.	1	429	1	1180	.	1.49	1	429	1	1180	.	1.49
430	.	.	.	.	.	.	2	432	2	1165	64	1.44	2	432	2	1165	64	1.44
TOTAL/MEAN	97	262	97	329	260	1.39	113	285	113	422	311	1.44	221	270	221	364	292	1.40

Table 36. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "dock" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	.	.	.	.	.	.	1	127	1	27	.	1.32	1	127	1	27	.	1.32
130	1	133	1	31	.	1.32	2	137	2	30	1	1.17	3	136	3	30	1	1.22
140	3	143	3	36	3	1.24	15	144	15	36	3	1.21	18	144	18	36	3	1.21
150	1	155	1	47	.	1.26	9	154	9	45	3	1.23	10	155	10	46	3	1.24
170	.	.	.	.	.	.	1	171	1	74	.	1.48	1	171	1	74	.	1.48
250	.	.	.	.	.	.	1	259	1	243	.	1.40	1	259	1	243	.	1.40
TOTAL/MEAN	5	143	5	37	6	1.26	29	151	29	47	39	1.23	34	150	34	45	36	1.24

Table 37. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "dock" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	.	.	.	.	.	.	2	126	2	27	0	1.35	2	126	2	27	0	1.35
130	4	134	4	31	1	1.29	22	136	22	31	3	1.26	26	135	26	31	2	1.26
140	5	142	5	36	5	1.25	16	144	16	38	3	1.26	21	143	21	37	3	1.26
150	4	154	4	45	3	1.25	7	153	7	45	4	1.25	11	153	11	45	4	1.25
160	.	.	.	.	.	.	2	161	2	53	0	1.28	2	161	2	53	0	1.28
170	.	.	.	.	.	.	2	174	2	65	1	1.25	2	174	2	65	1	1.25
180	.	.	.	.	.	.	1	187	1	91	.	1.39	1	187	1	91	.	1.39
220	.	.	.	.	.	.	1	229	1	152	.	1.27	1	229	1	152	.	1.27
TOTAL/MEAN	13	143	13	37	7	1.27	53	145	53	40	19	1.26	66	145	66	40	18	1.26

Table 38. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "dock" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
130	5	135	5	30	5	1.21	7	136	7	33	4	1.32	12	136	12	32	5	1.27
140	4	147	4	36	4	1.14	20	145	20	38	3	1.24	24	145	24	37	3	1.22
150	5	153	5	45	2	1.25	13	154	13	47	5	1.27	18	154	18	46	4	1.27
160	1	164	1	56	.	1.27	13	163	13	55	4	1.27	14	163	14	55	4	1.27
170	.	.	.	.	.	.	5	174	5	68	4	1.29	5	174	5	68	4	1.29
180	1	183	1	84	.	1.37	1	180	1	73	.	1.25	2	182	2	79	8	1.31
200	.	.	.	.	.	.	1	209	1	131	.	1.43	1	209	1	131	.	1.43
220	.	.	.	.	.	.	1	225	1	164	.	1.44	1	225	1	164	.	1.44
TOTAL/MEAN	16	149	16	41	14	1.22	61	155	61	49	22	1.27	77	154	77	48	20	1.26

Table 39. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "dock" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
130	5	136	5	35	3	1.38	9	138	9	34	3	1.35	14	136	14	34	3	1.36
140	10	143	10	37	3	1.29	12	145	12	40	3	1.31	22	144	22	39	3	1.30
150	3	156	3	49	5	1.30	24	153	24	48	4	1.35	27	153	27	48	4	1.34
160	2	166	2	57	1	1.25	5	163	5	56	4	1.29	7	164	7	56	3	1.28
170	1	173	1	68	.	1.31	10	174	10	70	10	1.33	11	174	11	70	10	1.33
200	.	.	.	.	.	.	1	203	1	125	.	1.49	1	203	1	125	.	1.49
220	1	221	1	131	.	1.21	.	.	.	.	.	.	1	221	1	131	.	1.21
TOTAL/MEAN	22	150	22	46	21	1.31	61	154	61	50	16	1.33	83	153	83	49	17	1.33

Table 40. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "dock" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	.	.	.	.	.	.	1	126	1	30	.	1.50	1	126	1	30	.	1.50
130	4	133	4	31	1	1.34	2	137	2	36	7	1.39	6	134	6	33	4	1.35
140	9	145	9	40	3	1.30	5	143	5	37	2	1.25	14	144	14	39	3	1.28
150	6	154	6	47	2	1.27	4	156	4	51	4	1.34	10	155	10	48	4	1.30
160	2	165	2	62	1	1.37	8	164	8	56	6	1.28	10	164	10	57	6	1.30
170	1	174	1	70	.	1.33	4	176	4	73	4	1.32	5	176	5	72	4	1.32
180	.	.	.	.	.	.	3	183	3	80	2	1.32	3	183	3	80	2	1.32
190	.	.	.	.	.	.	1	193	1	85	.	1.18	1	193	1	85	.	1.18
200	1	202	1	113	.	1.37	1	206	1	101	.	1.16	2	204	2	107	8	1.26
TOTAL/MEAN	23	151	23	46	18	1.31	29	162	29	57	18	1.30	52	157	52	52	19	1.31

Table 41. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "bay" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	2	127	2	27	1	1.29	6	126	6	27	2	1.34	8	126	8	27	2	1.33
130	16	135	16	32	4	1.30	26	135	26	33	3	1.33	42	135	42	32	3	1.32
140	16	145	16	39	3	1.30	37	143	37	38	4	1.30	53	144	53	39	3	1.30
150	2	152	2	47	2	1.32	12	154	12	49	5	1.32	14	154	14	48	5	1.32
160	1	165	1	51	.	1.14	1	167	1	57	.	1.22	2	166	2	54	4	1.18
190	.	.	.	.	.	.	1	195	1	94	.	1.27	1	195	1	94	.	1.27
TOTAL/MEAN	37	140	37	36	6	1.30	83	142	83	38	9	1.31	120	141	120	37	9	1.31

Table 42. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "bay" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	3	127	3	28	2	1.36	5	128	5	30	3	1.46	8	128	8	30	3	1.42
130	14	135	14	33	3	1.32	29	135	29	34	2	1.39	43	135	43	34	2	1.37
140	11	144	11	38	4	1.27	23	143	23	39	3	1.31	34	143	34	38	4	1.30
150	4	155	4	52	3	1.40	1	150	1	46	.	1.36	5	154	5	50	4	1.39
160	2	163	2	54	6	1.24	4	163	4	57	4	1.31	6	163	6	56	4	1.28
TOTAL/MEAN	34	141	34	37	8	1.31	62	139	62	37	6	1.36	96	140	96	37	7	1.34

Table 43. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "bay" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
.	.	.	1	34	.	.	.	.	.	.	.	.	.	.	1	34	.	.
120	7	127	7	29	1	1.42	1	128	1	31	.	1.48	8	127	8	29	2	1.42
130	28	135	28	33	3	1.34	11	135	11	33	2	1.35	39	135	39	33	2	1.34
140	20	145	20	40	4	1.31	28	144	28	40	4	1.35	48	144	48	40	4	1.33
150	9	152	9	47	5	1.31	17	153	17	49	4	1.37	26	153	26	48	4	1.35
160	1	162	1	57	.	1.34	7	165	7	61	6	1.36	8	164	8	60	5	1.35
220	.	.	.	.	.	.	1	228	1	157	.	1.32	1	228	1	157	.	1.32
240	.	.	.	.	.	.	1	245	1	175	.	1.19	1	245	1	175	.	1.19
TOTAL/MEAN	65	140	66	37	7	1.33	66	149	66	47	23	1.36	131	145	132	42	18	1.35

Table 44. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "bay" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	29	3	.
120	9	128	9	30	3	1.44	3	127	3	29	3	1.41	12	128	12	30	3	1.43
130	11	134	11	34	4	1.41	31	135	31	36	3	1.45	42	135	42	35	3	1.44
140	11	143	11	40	4	1.34	26	144	26	41	5	1.36	37	144	37	40	5	1.36
150	8	154	8	48	4	1.31	14	154	14	52	4	1.41	22	154	22	51	4	1.37
160	1	160	1	56	.	1.37	4	162	4	62	4	1.45	5	162	5	61	5	1.43
170	2	173	2	74	2	1.43	2	171	2	61	0	1.23	4	172	4	67	7	1.33
190	.	.	.	.	.	.	1	194	1	103	.	1.41	1	194	1	103	.	1.41
200	1	203	1	116	.	1.39	.	.	.	.	.	.	1	203	1	116	.	1.39
220	.	.	.	.	.	.	1	223	1	146	.	1.32	1	223	1	146	.	1.32
240	1	243	1	189	.	1.32	1	248	1	227	.	1.49	2	246	2	208	27	1.40
250	.	.	.	.	.	.	1	252	1	213	.	1.33	1	252	1	213	.	1.33
260	.	.	.	.	.	.	1	264	1	267	.	1.45	1	264	1	267	.	1.45
TOTAL/MEAN	44	145	44	45	27	1.38	85	149	85	51	39	1.41	129	147	131	48	35	1.40

Table 45. Length and weight data, by 10mm fork length intervals, for yellow perch caught by "bay" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
120	6	127	6	28	3	1.36	1	129	1	28	.	1.30	7	127	7	28	3	1.36
130	27	134	27	32	3	1.30	10	135	10	34	3	1.38	37	135	37	32	3	1.32
140	16	144	16	40	3	1.33	15	144	15	39	5	1.31	31	144	31	39	4	1.32
150	10	153	10	50	5	1.39	8	154	8	49	4	1.36	18	153	18	50	5	1.38
160	4	165	4	59	7	1.32	10	164	10	61	5	1.37	14	164	14	61	5	1.36
200	1	209	1	135	.	1.48	1	205	1	118	.	1.37	2	207	2	127	12	1.42
210	.	.	.	.	.	.	1	211	1	132	.	1.41	1	211	1	132	.	1.41
TOTAL/MEAN	64	142	64	39	15	1.33	46	151	46	48	20	1.35	110	146	110	43	18	1.34

Table 46. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "dock" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
340	.	.	.	.	.	.	1	349	1	635	.	1.49	1	349	1	635	.	1.49
360	1	363	1	750	.	1.57	.	.	.	.	.	.	1	363	1	750	.	1.57
390	2	395	2	976	1	1.59	.	.	.	.	.	.	2	395	2	976	1	1.59
TOTAL/MEAN	3	384	3	901	130	1.58	1	349	1	635	.	1.49	4	375	4	834	170	1.56

Table 47. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "dock" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
380	.	.	.	.	.	.	2	386	2	980	99	1.71	2	386	2	980	99	1.71
390	.	.	.	.	.	.	2	392	2	1035	92	1.73	2	392	2	1035	92	1.73
400	.	.	.	.	.	.	1	400	1	1090	.	1.70	1	400	1	1090	.	1.70
TOTAL/MEAN	.	.	.	.	.	.	5	391	5	1024	82	1.72	5	391	5	1024	82	1.72

Table 48. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "dock" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
380	.	.	.	.	.	.	2	384	2	1004	34	1.78	2	384	2	1004	34	1.78
390	.	.	.	.	.	.	1	395	1	980	.	1.59	1	395	1	980	.	1.59
400	2	403	2	1070	99	1.64	.	.	.	.	.	.	2	403	2	1070	99	1.64
410	.	.	.	.	.	.	1	410	1	1060	.	1.54	1	410	1	1060	.	1.54
430	1	433	1	1380	.	1.70	.	.	.	.	.	.	1	433	1	1380	.	1.70
TOTAL/MEAN	3	413	3	1173	192	1.66	4	393	4	1012	39	1.67	7	402	7	1081	143	1.67

Table 49. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "dock" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
170	1	178	1	67	.	1.19	.	.	.	.	.	.	1	178	1	67	.	1.19
390	.	.	.	.	.	.	1	398	1	1150	.	1.82	1	398	1	1150	.	1.82
400	.	.	.	.	.	.	1	401	1	1200	.	1.86	1	401	1	1200	.	1.86
410	4	415	4	1273	91	1.78	.	.	.	.	.	.	4	415	4	1273	91	1.78
420	2	425	2	1385	49	1.81	3	423	3	1262	103	1.66	5	424	5	1311	102	1.72
430	4	436	4	1418	99	1.72	2	436	2	1580	28	1.91	6	436	6	1472	114	1.78
440	1	443	1	1630	.	1.87	2	445	2	1675	163	1.91	3	444	3	1660	118	1.90
450	1	450	1	1510	.	1.66	.	.	.	.	.	.	1	450	1	1510	.	1.66
460	1	461	1	1840	.	1.88	.	.	.	.	.	.	1	461	1	1840	.	1.88
TOTAL/MEAN	14	413	14	1327	400	1.73	9	426	9	1405	230	1.81	23	418	23	1357	340	1.76

Table 50. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "dock" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
400	.	.	.	.	.	.	1	409	1	1410	.	2.06	1	409	1	1410	.	2.06
420	2	427	2	1350	184	1.74	1	423	1	1500	.	1.98	3	425	3	1400	156	1.82
430	1	430	1	1770	.	2.23	2	433	2	1545	7	1.90	3	432	3	1620	130	2.01
440	1	443	1	1550	.	1.78	2	448	2	1850	42	2.06	3	446	3	1750	176	1.97
450	.	.	.	.	.	.	2	453	2	1870	14	2.01	2	453	2	1870	14	2.01
460	1	465	1	1760	.	1.75	.	.	.	.	.	.	1	465	1	1760	.	1.75
490	.	.	.	.	.	.	2	499	2	2325	92	1.87	2	499	2	2325	92	1.87
TOTAL/MEAN	5	438	5	1556	227	1.85	10	450	10	1809	325	1.97	15	446	15	1725	313	1.93

Table 51. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "bay" gill nets in Heming Lake, 1977.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
330	1	339	1	575	.	1.48	.	.	.	.	.	.	1	339	1	575	.	1.48
340	.	.	.	.	.	.	2	349	2	699	34	1.65	2	349	2	699	34	1.65
350	1	352	1	775	.	1.78	4	352	4	695	38	1.60	5	352	5	711	49	1.63
360	.	.	.	.	.	.	2	363	2	788	53	1.65	2	363	2	788	53	1.65
370	1	372	1	850	.	1.65	1	374	1	800	.	1.53	2	373	2	825	35	1.59
380	.	.	.	.	.	.	1	382	1	975	.	1.75	1	382	1	975	.	1.75
TOTAL/MEAN	3	354	3	733	142	1.63	10	359	10	753	95	1.63	13	358	13	748	101	1.63

Table 52. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "bay" gill nets in Heming Lake, 1978.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
380	.	.	.	.	.	.	3	385	3	987	91	1.72	3	385	3	987	91	1.72
390	3	394	3	1007	15	1.65	.	.	.	.	.	.	3	394	3	1007	15	1.65
410	2	412	2	1205	92	1.73	.	.	.	.	.	.	2	412	2	1205	92	1.73
TOTAL/MEAN	5	401	5	1086	118	1.68	3	385	3	987	91	1.72	8	395	8	1049	114	1.70

Table 53. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "bay" gill nets in Heming Lake, 1979.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
380	1	388	1	1020	.	1.75	.	.	.	.	.	.	1	388	1	1020	.	1.75
400	.	.	.	.	.	.	1	409	1	1130	.	1.65	1	409	1	1130	.	1.65
TOTAL/MEAN	1	388	1	1020	.	1.75	1	409	1	1130	.	1.65	2	399	2	1075	78	1.70

Table 54. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "bay" gill nets in Heming Lake, 1980.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
430	1	437	1	1340	.	1.61	.	.	.	.	.	.	1	437	1	1340	.	1.61
TOTAL/MEAN	1	437	1	1340	.	1.61	.	.	.	.	.	.	1	437	1	1340	.	1.61

Table 55. Length and weight data, by 10mm fork length intervals, for lake whitefish caught by "bay" gill nets in Heming Lake, 1981.

LENGTH INTERVAL (mm)	MALES						FEMALES						COMBINED					
	LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)				LENGTH (mm)		WEIGHT (g)			
	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K	N	MEAN	N	MEAN	SD	K
150	1	153	1	44	.	1.23	.	.	.	.	.	.	1	153	1	44	.	1.23
160	.	.	.	.	.	.	1	163	1	53	.	1.22	1	163	1	53	.	1.22
170	1	179	1	68	.	1.19	.	.	.	.	.	.	1	179	1	68	.	1.19
250	1	258	1	290	.	1.69	.	.	.	.	.	.	1	258	1	290	.	1.69
270	.	.	.	.	.	.	1	271	1	300	.	1.51	1	271	1	300	.	1.51
430	.	.	.	.	.	.	1	435	1	1630	.	1.98	1	435	1	1630	.	1.98
440	.	.	.	.	.	.	1	442	1	1800	.	2.08	1	442	1	1800	.	2.08
450	1	458	1	1880	.	1.96	.	.	.	.	.	.	1	458	1	1880	.	1.96
460	1	467	1	2160	.	2.12	1	460	1	2030	.	2.09	2	464	2	2095	92	2.10
TOTAL/MEAN	5	303	5	888	1042	1.64	5	354	5	1163	915	1.78	10	329	10	1026	936	1.71

Table 56. Length-weight relationships, $\log_{10}W = a + b(\log_{10} L)$, for walleye caught by gill net during "dock and bay" index netting program, Heming Lake, 1977-1981. Only one walleye caught in 1979.

Year	Sex	n	Y-intercept (a)	Slope (b)	r^2
1977	M	4	-5.2919	3.1359	0.9279
	F	8	-4.3515	2.7860	0.9788
	Combined	12	-4.6050	2.8784	0.9732
1978	M	9	-6.6698	3.6653	0.9757
	F	7	-6.4531	3.5823	0.9889
	Combined	16	-6.5093	3.6037	0.9874
1980	F	11	-6.1531	3.4669	0.9450
	Combined	14	-5.7084	3.2994	0.9878
1981	M	15	-5.6921	3.2890	0.9956
	F	18	-5.2678	3.1131	0.9955
	Combined	33	-5.4398	3.1845	0.9948

Table 57 . Length-weight relationships, $\log_{10}W = a + b(\log_{10} L)$, for northern pike caught by gill net during "dock and bay" index netting program, Heming Lake, 1977-1981.

Year	Sex	n	Y-intercept (a)	Slope (b)	r^2
1977	M	225	-5.3706	3.0853	0.9601
	F	227	-5.2108	3.0192	0.9552
	Combined	466	-5.2684	3.0433	0.9672
1978	M	184	-5.2775	3.0515	0.9801
	F	150	-5.4097	3.0957	0.9790
	Combined	342	-5.3632	3.0811	0.9820
1979	M	217	-5.4743	3.1227	0.9890
	F	151	-5.2613	3.0365	0.9870
	Combined	369	-5.2412	3.0324	0.9863
1980	M	159	-5.1820	3.0086	0.9525
	F	96	-5.3267	3.0636	0.9941
	Combined	255	-5.2464	3.0333	0.9716
1981	M	149	-5.3724	3.0961	0.9889
	F	117	-5.2922	3.0565	0.9792
	Combined	266	-5.3245	3.0737	0.9840

Table 58. Length-weight relationships, $\log_{10}W = a + b(\log_{10} L)$, for white sucker caught by gill net during "dock and bay" index netting program, Heming Lake, 1977-1981.

Year	Sex	n	Y-intercept (a)	Slope (b)	r^2
1977	M	85	-5.2607	3.1650	0.9802
	F	196	-5.2922	3.1760	0.9582
	Combined	342	-5.4990	3.2576	0.9904
1978	M	61	-4.9461	3.0428	0.9647
	F	94	-4.9128	3.0262	0.9674
	Combined	183	-5.2784	3.1705	0.9926
1979	M	127	-5.4203	3.2248	0.9833
	F	167	-5.0989	3.0968	0.9870
	Combined	328	-5.4302	3.2270	0.9907
1980	M	108	-5.3026	3.1834	0.9940
	F	140	-5.2135	3.1459	0.9861
	Combined	255	-5.2646	3.1669	0.9901
1981	M	140	-5.6184	3.3147	0.9935
	F	164	-5.4447	3.2448	0.9924
	Combined	322	-5.5600	3.2908	0.9931

Table 59. Length-weight relationships, $\log_{10}W = a + b(\log_{10} L)$, for yellow perch caught by gill net during "dock and bay" index netting program, Heming Lake, 1977-1981.

Year	Sex	n	Y-intercept (a)	Slope (b)	r^2
1977	M	42	-4.3476	2.7476	0.7839
	F	112	-4.8638	2.9883	0.9385
	Combined	154	-4.8031	2.9600	0.9195
1978	M	47	-4.6326	2.8813	0.8722
	F	115	-4.3239	2.7406	0.8969
	Combined	162	-4.3849	2.7681	0.8907
1979	M	81	-4.2908	2.7242	0.8294
	F	127	-4.7626	2.9451	0.9327
	Combined	208	-4.6947	2.9132	0.9194
1980	M	66	-4.4916	2.8252	0.9529
	F	146	-4.6709	2.9118	0.9446
	Combined	212	-4.6304	2.8920	0.9472
1981	M	87	-5.0747	3.0908	0.9387
	F	75	-4.7310	2.9333	0.9532
	Combined	162	-4.8974	3.0090	0.9513

Table 60. Length-weight relationships, $\log_{10}W = a + b(\log_{10} L)$, for lake whitefish caught by gill net during "dock and bay" index netting program, Heming Lake, 1977-1981.

Year	Sex	n	Y-intercept (a)	Slope (b)	r^2
1977	M	6	-5.0093	3.0838	0.9035
	F	11	-6.2427	3.5680	0.8317
	Combined	17	-5.3227	3.2071	0.8770
1978	Combined	13	-4.3553	2.8405	0.5073
1979	Combined	9	-3.2118	2.3985	0.7321
1980	M	11	-5.9143	3.4405	0.9948
	F	5	-3.1404	2.3803	0.6277
	Combined	24	-5.9024	3.4374	0.9852
1981	M	10	-5.8491	3.4262	0.9951
	F	15	-5.9394	3.4664	0.9968
	Combined	25	-5.9092	3.4529	0.9959

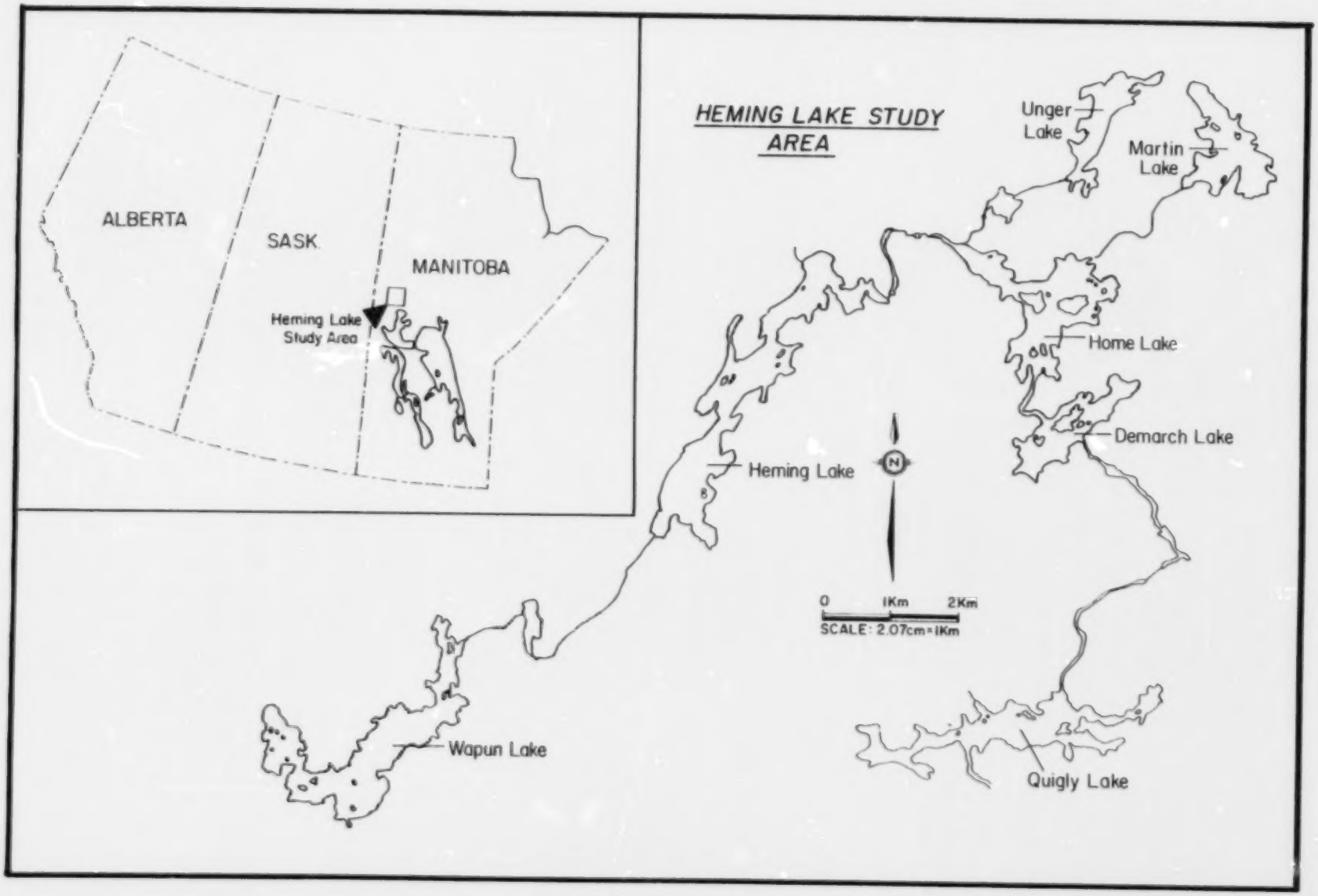

Fig.1. Heming Lake Study area.

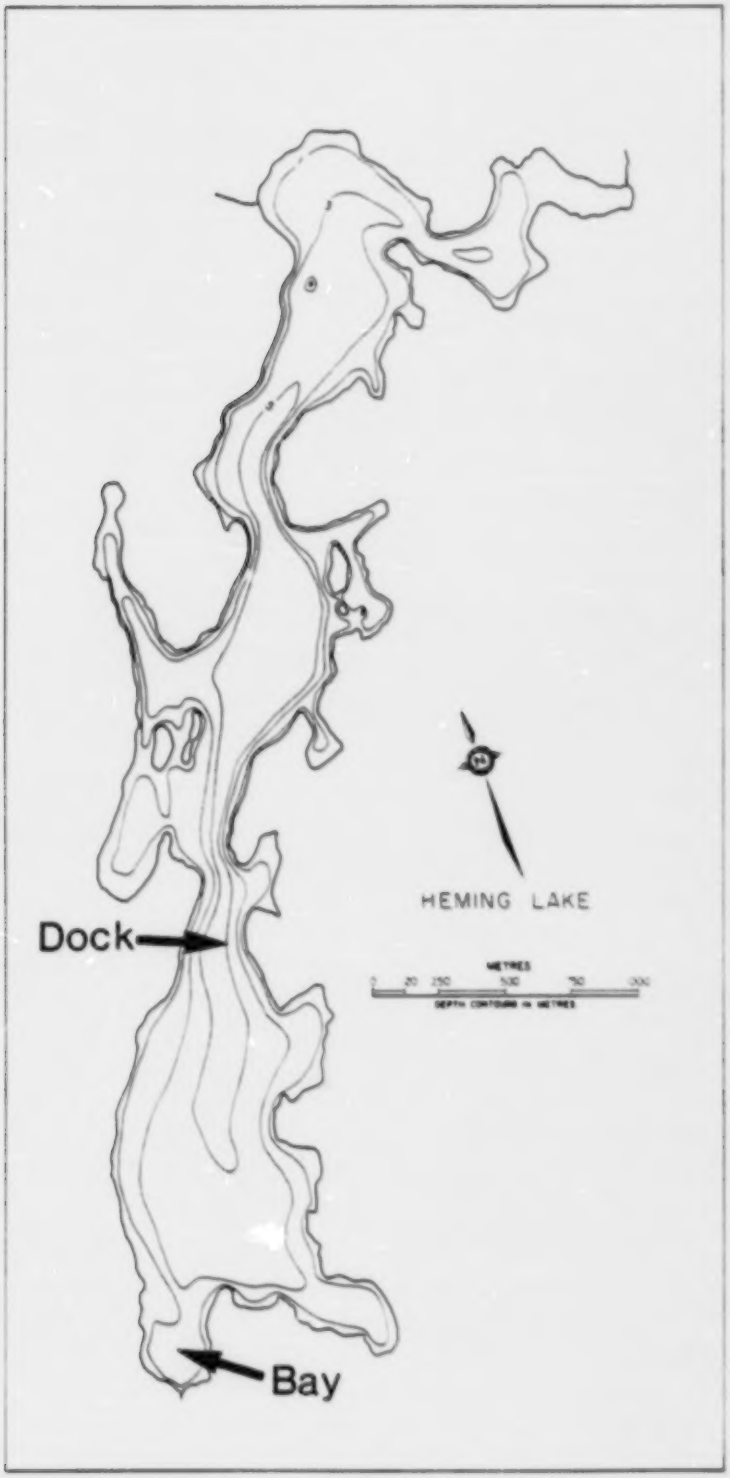

Fig. 2. Bathymetric map of Heming Lake showing gill netting stations.